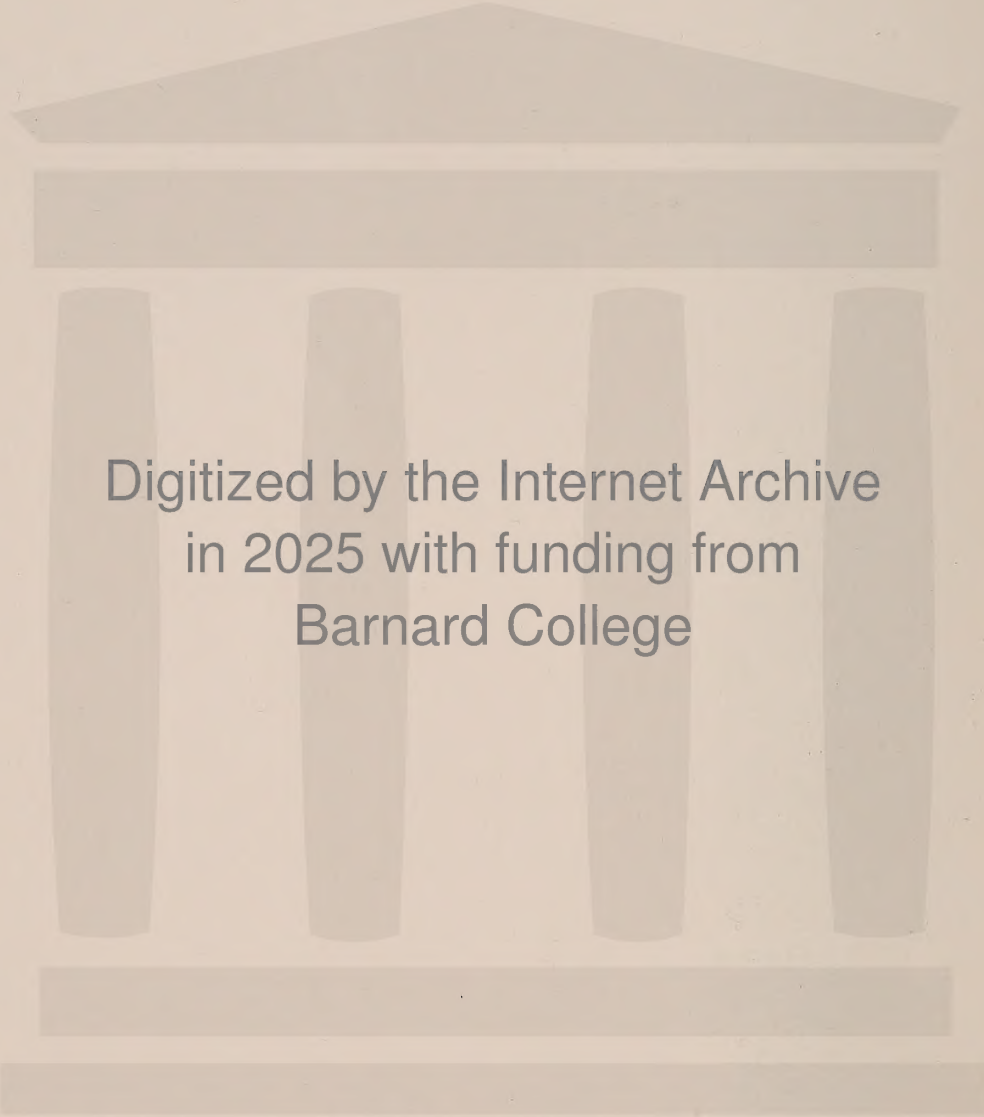




BARNARD



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BARNARD

The Undergraduate College of Liberal Arts for Women of Columbia University

1988-1989 CATALOGUE



1988-89 marks Barnard's Centennial anniversary celebrating 100 years of excellence in undergraduate education for women.

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New York, N.Y. 10027-6598

Barnard Information Operator:
Barnard Admissions Office:

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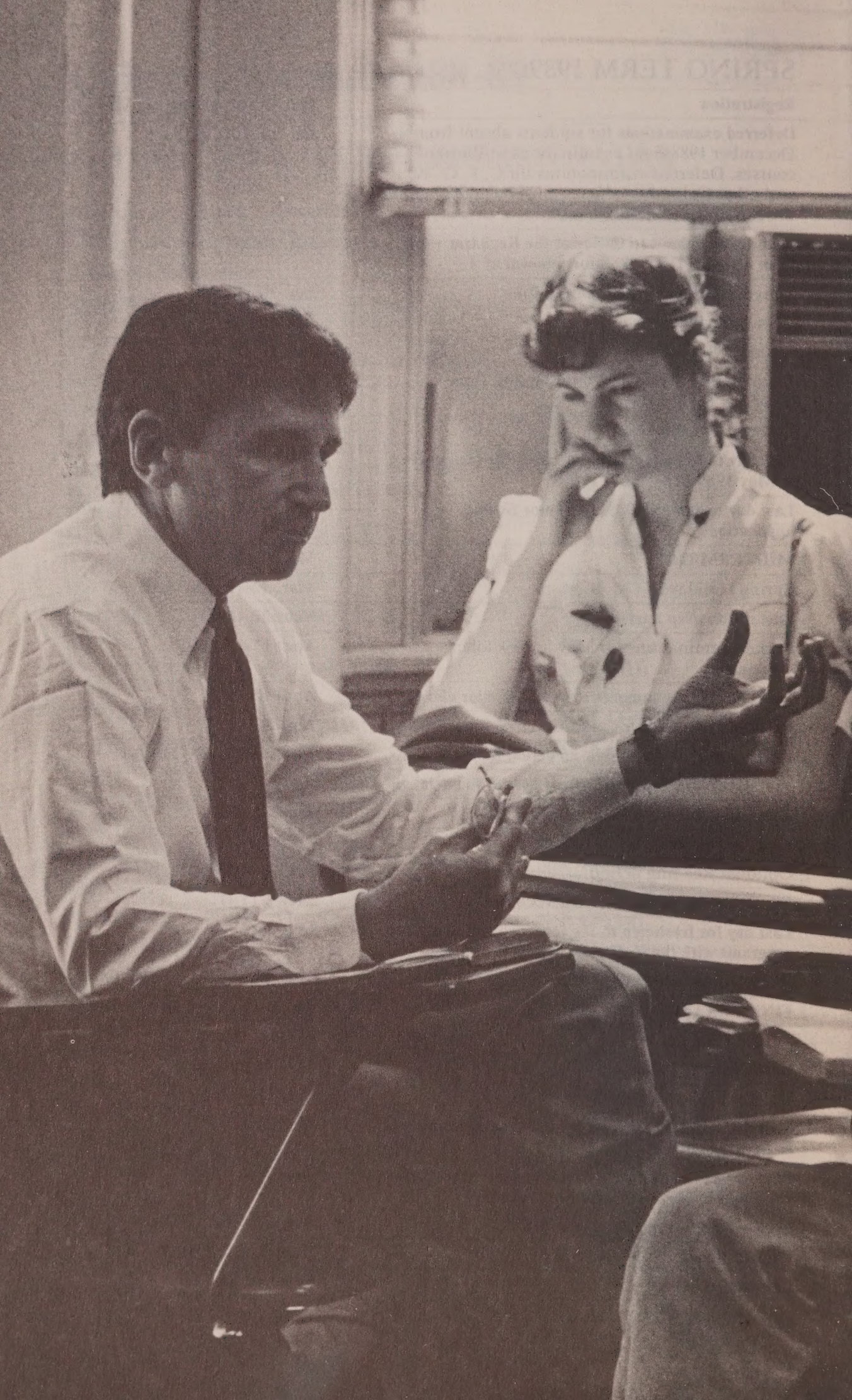
College Calendar 1988-89

AUTUMN TERM—ONE HUNDREDTH YEAR

Freshman and Transfer Registration	Sept. 1, 2 (Th, F)
Language Placement Examinations	Sept. 2 (F)
Upperclass Registration	Sept. 6, 8, 9 (Tu, Th, F)
Deferred examinations for students absent from May 1988 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester.	Sept. 6, 7, 9 (Tu, W, F)
Centennial Convocation	Sept. 7 (W)
Classes begin 9:00 a.m.	Sept. 8 (Th)
Last day to submit work for courses in which grades of I were given in the Autumn Term 1987 and Spring Term 1988	Sept. 8 (Th)
Program filing. Last day to file Autumn Term programs 5:00 p.m.	Sept. 16 (F)
Last day to add a course	Sept. 16 (F)
Last day to file Spring Term Senior Scholar applications	Oct. 10 (M)
Last day to file diploma name cards for the degree in January 1989	Oct. 10 (M)
MIDTERM DATE	Oct. 25 (Tu)
Award of October Degrees	Oct. 26 (W)
Academic Holiday	Nov. 7 (M)
Election Day Holiday	Nov. 8 (Tu)
Required meetings for planning programs	Nov. 10 (Th)
Program planning and sign-up period for all students	Nov. 10 - Dec. 1 (Th-Th)
Major examinations for January graduates	Nov. 16-18 (W-F)
Last day to drop a course	Nov. 17 (Th)
Thanksgiving Holidays	Nov. 24-27 (Th-Sun)
Last day to file requests for pass-fail grades	Nov. 30 (W)
Last day to withdraw from a course	Nov. 30 (W)
Last day for freshmen and first semester sophomores to file tentative Spring Term programs with the Registrar	Dec. 1 (Th)
Optional reading period	Dec. 9-14 (F-W)
Required reading day	Dec. 15 (Th)
Last day for payment of bill for Spring Term	Dec. 15 (Th)
MIDYEAR EXAMINATIONS BEGIN	Dec. 16 (F)
Autumn Term ends	Dec. 23 (F)
Winter recess	Dec. 24 - Jan. 22, 1989 (Sat-Sun)

SPRING TERM 1989

Registration	Jan. 19, 20, 23 (Th, F, M)
Deferred examinations for students absent from December 1988 final examinations in Barnard courses. Deferred examinations for C, F, G, W, and other Columbia courses must be taken before the end of the semester.	Jan. 19, 20 (Th, F)
Last day to submit to Office of the Registrar work from Autumn Term 1988 for removal of I	Jan. 20 (F)
Language Placement Examinations	Jan. 20 (F)
Classes begin 9:00 a.m.	Jan 23 (M)
Award of January degrees	Jan. 25 (W)
Program filing. Last day to file Spring Term programs 5:00 p.m.	Feb. 1 (W)
Last day to add a course	Feb. 1 (W)
Last day to file diploma name cards for the degree in May 1989 or October 1989	Feb. 3 (F)
Last day to submit 1989-90 Senior Scholar applications	Mar. 1 (W)
MIDTERM DATE	Mar. 9 (Th)
Spring Holidays	Mar. 12-19 (Sat-Sun)
Last day to drop a course	Mar. 23 (F)
Major examinations for May and October graduates	April 12-14 (W-F)
Last date for sophomores to declare major choices	April 12 (W)
Required meetings for planning programs	April 13 (Th)
Program-planning and sign-up period for all students	April 13-May 2 (Th-Tu)
Last day to file application for 1989-90 financial aid	April 14 (F)
Last day to file request for pass-fail grades	April 26 (W)
Last day to withdraw from a course	April 26 (W)
Optional Reading period	April 28-May 3 (F-W)
Phi Beta Kappa-Honors Convocation	May 2 (Tu)
Last day for freshmen to file tentative Autumn Term programs with the Registrar	May 2 (Tu)
Required reading day	May 4 (Th)
FINAL EXAMINATIONS BEGIN	May 5 (F)
Spring Term ends	May 12 (F)
Baccalaureate Service	May 14 (Sun)
Conferring of Degrees	May 17 (W)
Last day to file application for deferred examinations in Barnard courses	May 26 (F)
Last day to submit to Office of the Registrar work from Spring Term 1989 for removal of I	June 9 (F)
Freshman and Transfer Registration	Aug. 31, Sept. 1 (Th, F)
Registration for Autumn Term	Sept. 5, 6, 7 (Tu, W, Th)
Classes begin 9:00 a.m.	Sept. 7 (Th)



I. The College

Barnard is a selective liberal arts college for women, affiliated with Columbia University and integrally related to New York City. Barnard is committed to the fundamental values of the liberal arts and sciences, and its curriculum reflects that commitment. The cultural and social resources of New York and the intellectual resources of Columbia University are as important a part of an undergraduate education at Barnard as the commitment to learning and scholarship that is everywhere apparent in the College environment.

Because the liberal education offered at Barnard is broad in scope and demanding, admission to the College is competitive. For those who are admitted, four years at the College present an extensive array of opportunities both to contribute to the community and to draw from it, and the College seeks to admit diversified groups of students who will benefit to the fullest extent from the Barnard experience. Barnard is a university college in an international city, and today the curriculum affirms and encourages extensive use of its vast metropolitan resources.

BARNARD'S HISTORY

Barnard College was among the pioneers in the late nineteenth century crusade to make higher education available to young women.

Barnard College grew out of the idea, first proposed by Columbia University's tenth president, Frederick A.P. Barnard, that young women share in the opportunity for higher education. Initially ignored, the idea was developed by President Barnard until it led to the creation of a "Collegiate Course for Women." Under the new plan, highly qualified women were authorized to follow a prescribed course of study leading ultimately to Columbia University degrees, but no provision was made for where and how they were to pursue their studies. This arrangement was abandoned six years later when Columbia's trustees agreed to the establishment of an affiliated college for women. A provisional charter and the promise of funds were secured, and Barnard College was named in honor of its earliest and most persistent advocate.

In October 1889, the first Barnard class met in a rented brownstone house at 343 Madison Avenue with fourteen students enrolled in the School of Arts, twenty-two "specials" enrolled in science because they lacked the entrance requirements in Greek, and a faculty of six.

Nine years later Barnard moved to its present site in Morningside Heights, and in 1900 was included in the educational system of Columbia University with provisions which at that time were unique among women's colleges: it was to be governed by its own Trustees, Faculty, and Dean, and was responsible for its own endowment and facilities, while sharing the instruction, the library, and the degree of a university.

The College

BARNARD TODAY

Today Barnard has a faculty of over 270 men and women, outstanding teacher-scholars whose primary concern is the education of undergraduate students at the College, and many of whom bring an added vitality to their teaching from their professional activities outside the classroom. From the original fourteen matriculated students, enrollment has increased to 2,200; since 1893 Columbia University has awarded its degree to more than 25,000 Barnard students. The original gifts of support have expanded to the current endowment funds of \$45,905,895.

In 1988, Barnard College and Columbia University amended and extended their long-standing agreement for cooperation between the two institutions. Barnard is an independent liberal arts college for women with its own curriculum, faculty, admissions standards, and graduation requirements, as well as trustees, endowment, and physical plant. At the same time, Barnard and Columbia share resources, and Barnard and Columbia students thereby have open access to the courses offered by either institution and to each other's faculty, libraries and facilities. Barnard and Columbia students also share in extracurricular activities and daily life.

More than fifty years ago, Nicholas Murray Butler, one of Columbia's great presidents, observed, "New York is intensely cosmopolitan and contact with its life for a short time during the impressionableness of youth is in itself a liberal education." The city is an extension of the campus, utilized by every department to narrow the gap between learning and living.

THE LIBERAL ARTS CURRICULUM

Barnard's liberal arts curriculum includes a series of general education requirements—a program of courses that the Faculty believes will offer stimulating and enriching educational opportunities for all students, while at the same time permitting each to tailor the manner in which the requirements are fulfilled to suit her own propensities, strengths, and interests.

Assistance in planning her individual course of study is given by the student's class adviser, a member of the teaching staff or of the Office of the Dean of Studies, who supervises the work of the freshman and the sophomore years. At the end of this period, each student chooses her major field. During the junior and senior years her major adviser guides advanced study in the areas of concentration and other phases of college work. Twenty-eight departments offer major programs and seven inter-departmental majors are also available.

Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into small groups for conference and discussion. Laboratory work in the sciences is conducted with modern laboratory equipment. There are opportunities for independent work and students may also be invited to participate in research projects with members of the faculty.

THE FACULTY

The Barnard faculty consists of scholar-teachers who have long recognized that their teaching depends upon their scholarship and grows out of it. The range of the Barnard curriculum fairly reflects this understanding, both in its concentration upon the traditional disciplines of learning and in its innovative interdisciplinary programs. The scholarly commitment of the Barnard faculty is constantly shown, too, in the variety and quality of its many research projects, its books and articles in learned journals, its participation in academic societies, and its many different kinds of publication and performance. But its abiding achievement is a constant demonstration in the classroom of the binding ties of teaching and scholarship to each other which simply will not accept the possibility of any serious conflict between them. For in these central functions, Barnard's scholar-teachers honor the enduring values of their profession.

The College

SPECIAL CONCERNS ABOUT THE EDUCATION OF WOMEN

The mission of Barnard College is the provision of undergraduate education of the highest quality in an environment that is particularly sensitive to the intellectual and personal needs of its women students. While Barnard College students enjoy a range of curricular and extracurricular opportunities with Columbia University, at Barnard they benefit from an atmosphere in which women currently comprise approximately 50% of the tenured faculty and are well-represented on all levels of the administration. These women serve as important role models for students, who in turn are encouraged to assume positions of leadership while on campus that equip them for similar roles later in life.

Acknowledging today's complex and changing climate for women, the Barnard Center for Research on Women exists to offer a wide range of programs. The Center strives to carry out research and present findings to the College community and to the public.

SPECIAL EDUCATIONAL OPPORTUNITIES

Barnard's location in America's largest and most diverse city and its affiliation with one of the nation's most distinguished universities make it possible for the College to offer some truly unusual educational opportunities. Some of these are formal programs, while others are resources tapped by students on an individual basis. The vast curricular resources of Columbia University are easily available to the student—including such academic areas as non-Western cultures and literatures, an extensive number of exotic languages, international studies, advanced scientific and technological studies, etc. Schools on Morningside Heights with which Barnard has formal programmatic relationships—each of which is described in more detail elsewhere in this catalogue—include the Manhattan School of Music, the Jewish Theological Seminary of America, Columbia's School of Law, the School of Engineering, the School of International and Public Affairs, Teachers College, and the Graduate School of Architecture and Planning. Many other academic organizations—both within and outside the University—offer opportunities for research, study, studio experience, career internships, or other relationships, depending on the special needs and interests of the individual student.

THE CAMPUS

The Campus occupies four acres of urban property along Broadway between 116th and 120th Streets. At the southern end of the campus, four residence buildings face an enclosed courtyard.

Barnard Hall is just north of the courtyard and contains seminar rooms, classrooms, and faculty offices, as well as a gym, a swimming pool, and dance studios. The Sulzberger Parlor on the third floor is used for meetings and small social events.

Adele Lehman Hall contains the Wollman Library and two floors of faculty offices and classrooms. The library includes the reserve room and the Academic Computing Center on the first floor, the reference area, periodicals, microforms, and open book stacks on the second floor, and on the third floor, audiovisual facilities, Barnard archives, and more open stacks. Computer facilities for the Economics and Political Science departments are also located in Lehman. The building overlooks a lawn surrounded by trees and shrubs.

The College

Helen Goodhart Altschul Hall and the Millicent McIntosh Center, which were dedicated jointly in November 1969, face each other across an open plaza. The fourteen stories of Altschul Hall are devoted primarily to the sciences and mathematics. Herbert H. Lehman Auditorium is on the first floor. The headquarters for student activities, a snack bar and a lounge are located in the McIntosh Center. Student mailboxes are there as well as music practice rooms, recreation and television rooms, bowling alleys, an art exhibit area, and the Jean T. Palmer Room for conferences.

Milbank Hall occupies the northern extreme of the campus and houses administrative and faculty offices, classrooms, a greenhouse, and the Minor Latham Playhouse, a small well-equipped modern theater. The language departments maintain social and reading rooms in Milbank Hall.

Off campus, but in the immediate neighborhood, Barnard maintains other residence halls, including 600, 616, 620 West 116th Street, and 601 West 110th Street, all apartment buildings; Plimpton Hall, completed in 1968; and a newly renovated building at 49 Claremont Avenue.

Barnard Camp is a 20-acre tract in Westchester County about 35 miles from New York City. The Camp and its rustic lodge, Holly House, are used by the College for both recreational and educational purposes.

Columbia University is directly across Broadway from the Barnard campus.

STUDENT LIFE

Barnard's student population is cosmopolitan in nature, coming from nearly every state and some fifty foreign countries. They represent diversity in background and training, and a mingling of economic, regional, and cultural strains that finds expression in the life of the campus. Every student belongs to a "house," a group that includes faculty and staff associates, commuting students, and residents. Each house plans its own informal gatherings, continuing programs, and special events.

All Barnard students are members of the Student Government Association, which provides general leadership and advocacy for student organizations. Students, faculty, and administrators serve on college committees, sharing responsibility for policy recommendations in the areas of curriculum, housing, financial aid, orientation, and the library. The Student Government Association sponsors many extracurricular activities: the college newspaper, the literary magazine, dramatic groups, political and religious organizations, and pre-professional and departmental clubs. Student artists with a diversity of talents and interests collaborate to produce Winter and Spring Festivals.

Cooperation among Barnard and Columbia groups is common. Many activities such as the University's chorus and its orchestra, its radio station, and a community service program enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia University campus at Earl Hall encompass nearly every faith and are open to all students. Urban New York, a joint Barnard-Columbia program, offers unusual opportunities throughout the year for students, faculty, and staff to experience together the cultural, political, and social life of the city.

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life. A Judicial Council of undergraduates, faculty, and staff recommends disciplinary action for non-academic offenses.

The Columbia University/Barnard College Athletic Consortium (Division I of the NCAA) sponsors eleven women's varsity intercollegiate teams including Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field, and Volleyball. The Athletic Consortium is just one of three in the nation and the only one on a Division I level. Women students at

The College

Barnard College along with women enrolled at the other undergraduate divisions of Columbia University have the opportunity to compete on all university-wide teams. Scheduled competition includes schools in the Ivy League, Seven Sisters, the metropolitan area, and the eastern region. Individuals and teams have the opportunity to advance to state, regional, and national competition. For students interested in less competitive programs, the Physical Education Department offers an extensive program of intramurals and recreation. The program features badminton, basketball, bowling, fencing, indoor soccer, wiffleball, tennis, volleyball, fun runs, open gym time, recreational swim, sports clubs, open weight room hours, and special events.

Barnard has a high retention rate of students, an indication of their satisfaction with their college experience. Barnard students also enjoy leaves for study, travel, and internships. Every year Barnard admits about 100 transfer students, who come to take advantage of the educational opportunities available to Barnard women.

Every year the Office of Career Services collects and summarizes information about post-baccalaureate study and employment. In the first year after graduation, 30-35% of those who receive the degree enter full-time graduate or professional study at once, with the largest proportions opting for medical schools (7-8%), law schools (7-9%), and business schools (1-2%). The rest, with the exception of fewer than 1%, obtain employment in business and industry, the arts, communications, teaching, social services, and other fields.



Ellen V. Futter
Barnard President



II. Admission

Selection of Candidates

The Committee on Admissions selects young women of proven academic strength who exhibit the potential for further intellectual growth. In addition to their high school records, recommendations, and College Board scores, the candidates' special abilities and interests are also given careful consideration. While admission is highly selective, no one criterion determines acceptance. Each applicant is considered in terms of her individual qualities of mind and spirit and her potential for successfully completing four years of study at Barnard.

Barnard also seeks students from diverse educational and cultural backgrounds and from many geographic regions. However, no preconceived profile of an ideal student population limits the number of applicants accepted from any one group. The College admits students and administers its financial aid and loan programs, educational policies and programs, recreational programs and other College programs and activities without regard to race, color, creed, national origin, or handicap.

Freshman Application Procedures

Students are admitted to the freshman class in September and, in limited numbers, in January. They must be at least fifteen years of age.

Application for admission to the freshman class should be made by February 1 for entrance in September of the same year. It is advisable, however, to apply in the fall of the senior year in high school. Application forms may be obtained by writing to the Office of Admissions.

A nonrefundable fee of \$40 must accompany each application. Checks or money orders must be in U.S. funds drawn on a U.S. bank and made payable to Barnard College. Students with great financial need should request a fee-waiver from their high school counselor and send it with the application.

Secondary School Preparation

Each candidate for admission must offer a college preparatory program from an approved secondary school or an equivalent education representing a four-year course of study. Academic preparation for admission should be based on the requirements for the A.B., or liberal arts, degree. A recommended program would comprise four years of work in English; three years in mathematics; three or four years in a foreign language (ancient or modern); two years in science with laboratory; and one year in history. An introduction to a second foreign language is generally useful. The remainder of the program would include additional work in the aforementioned subjects with the possible addition of music and art. Applications varying from this pattern are considered without discrimination if the candidate's records indicate genuine intellectual ability and high motivation.

College Boards

Barnard requires all freshman candidates to take the College Board's Scholastic Aptitude Test (SAT) and three Achievement Tests, one of which must be in English composition or literature. These tests should be taken by January of the senior year. As early as possible, candidates should write **directly** to the College Board, Box 592, Princeton, New Jersey 08540 for the Bulletin of Information containing descriptions of the Scholastic Aptitude and Achievement Tests, directions for filing applications, the dates on which examinations are administered, and a list of examination centers. Dates vary from year to year and applications to take the tests must be received by the CB well in advance of the test. Disabled students who require nonstandard administration of the SAT should consult with their guidance counselors for testing accommodations.

It is the student's responsibility to direct the College Board to send official test scores to the Office of Admissions. The Barnard College code for this purpose is 2038.

Admission

Recommendations

Another important part of the application is the submission of two recommendations, one from the high school counselor and the other from a teacher of the candidate's choice. These recommendations give the Committee on Admissions additional information about the candidate's interests, character, skills, and aptitude, and should be as complete as possible.

Interviews

Although not required, an interview is highly recommended. For students who are able to visit the campus, interviews and tours can be arranged by writing or calling the Office of Admissions (212-280-2014). Appointments are scheduled Monday through Friday from nine-thirty to twelve in the mornings and from two to four in the afternoons, and on Saturday mornings. For those who are unable to arrange interviews at the College, appointments can be made with Barnard Area Representatives whose names are listed on pages 285-293 or with the College Admissions Officers who visit major metropolitan areas throughout the country each fall.

SPECIAL APPLICATION PROCEDURES

Early Decision

Well-qualified high school seniors who have selected Barnard as their first choice college may apply under one of two Early Decision Plans (EDP). To be considered under the *Fall Early Decision Plan*, a candidate should submit her application and other required credentials (listed above under freshman application procedures) to the Office of Admissions by November 15. She will be notified of the Committee's decision no later than December 15. To be considered under the *Winter Early Decision Plan*, a candidate should submit a completed application, with all supporting credentials, by January 15 for notification of the Committee's decision no later than February 15. Under either plan, a student may initiate regular applications to other colleges; she must, however, withdraw all other applications upon admission to Barnard. (Notification of financial aid for those candidates who have demonstrated financial need will follow the admissions decision.) To reserve a place in the freshman class, an Early Decision student must submit a nonrefundable enrollment deposit following her decision to enroll. This deposit is applied toward total annual tuition and fees for the freshman year.

The Winter Early Decision Plan recognizes that some candidates may decide on their college preference later than others. The same criteria are used in the evaluation of applicants under both plans. The Committee on Admissions may choose to postpone decision on any EDP application until the spring. In that event, the student is asked to submit a record of school work from the first half of the senior year.

Centennial Scholars Program

The Centennial Scholars Program offers a limited number of intellectually independent students an early opportunity to engage in challenging projects tailored to their individual interests. Centennial Scholars work with mentors, chosen in consultation with the Program directors, on the development, execution, and presentation of these projects.

The Program is limited to fifteen students in any single class, approximately eight to ten to be chosen at the time of their admission with additional selections to be made in the following two terms. Admission of an entering freshman to the Program is based on the Centennial Scholars Committee's review of her Barnard application, including her secondary school record, recommendations from her counselors and teachers, her personal statement, the College Board test scores, and evidence of advanced preparation. Consideration of an enrolled freshman or sophomore requires recommendations of faculty members.

For further information about the Centennial Scholars Program, please see page 39.

Admission

Centennial Scholars pursue a full program of study and are responsible for the fulfillment of all degree requirements, some of which may be met before matriculation by qualifying scores on Advanced Placement tests.

Deferred Enrollment

An admitted freshman or transfer student who wishes to defer enrollment in Barnard for one year must obtain permission by writing to the Director of Admissions explaining the reasons for the deferral request. Such a request is normally granted for purposes of work, travel, or pursuit of a special interest.

Foreign Students

Each year Barnard enrolls a number of qualified foreign students. These students are expected to follow the same application procedures and present the same credentials as other candidates, including the Scholastic Aptitude Test (SAT) and three Achievement Tests. Foreign students who are considering Barnard are encouraged to communicate with the Director of Admissions well in advance of entrance so that the College may assist them with their plans.

Knowledge of the English language is essential for admission. Those students whose native language is not English are required to take the Test of English as a Foreign Language (TOEFL). Information about registration for the test is obtained by writing the TOEFL Program, Educational Testing Service, Princeton, New Jersey 08540. If the TOEFL scores cannot be presented, students are required to take the American University Language Center Test. Arrangements for it should be made through the United States Consulate.

After enrolling at Barnard, foreign students receive assistance with academic placement from the Foreign Student Adviser in the Office of the Dean of Studies.

Transfer Students

Barnard welcomes transfer students in the sophomore and junior classes each year. Application for admission with advanced standing should be made by **May 1** for admission in September and by **November 1** for admission in January.

Each candidate must submit a formal application and the following credentials: the secondary school record, the results of the SAT or, if appropriate, the TOEFL, recommendations from the secondary school counselor and from the college dean or adviser, an official transcript of all college work, and a copy of the college catalogue in which the courses taken are clearly marked.

A strong record of not less than one year's work at an accredited college, foreign university, or equivalent institution is required. In some cases, advanced credit cannot be assigned until a student has had an opportunity to establish a satisfactory record at Barnard, but, in general, credit is given for courses which are similar in content and depth to Barnard courses.

After acceptance, academic and general guidance is provided by the Advisers to Transfer Students in the Office of the Dean of Studies. For information on financial aid, students should consult page 21.

Visiting Students

Qualified students who are degree candidates at other colleges may apply for admission as visiting students (Other College Degree Candidates) for one or two semesters. Each applicant must present a satisfactory college record and a letter of approval from the dean or major adviser from the degree-granting school.

Admission

Readmission

Barnard students who have not been registered for one or two terms may return without applying for readmission by notifying the Dean of Studies. Students who have not been registered for more than two consecutive semesters must apply for readmission to the Director of Admissions by **November 1** for the Spring Term and by **May 1** for the Autumn Term. A nonrefundable fee of \$40 must accompany each application.

Resumed Education Program

Former Barnard students who wish to return to the College after an absence of at least five years to complete the A.B. degree or for further study in new areas of interest after graduation may obtain applications from the Director of Advising and Services for Resumed Education Students in the Office of the Dean of Studies.

Admission with Advanced Placement

Credit for advanced work completed in secondary school is determined on the basis of Advanced Placement scores and by the policy of the Barnard department concerned. Departmental policies are outlined below. As much as a year of degree credit (normally 30 points) can be granted.

Department	AP Score	Credit	Requirement Status
Art History	4 or 5	3 pts.	
Biological Sciences	4 or 5	3 pts.	(4½ pts. with review of lab notes) and one term of two-term biology sequence
Chemistry	4 or 5	3 pts.	(5 pts. with review of lab notes) and one term of two-term chemistry sequence
Computer Science	4 or 5	3 pts.	Exemption CSC W 1003
English	4 or 5	3 pts.	Exemption
Foreign languages	5	6 pts.	Exemption
	4	3 pts.	Exemption
History	5	6 pts.	
	4	3 pts.	
Mathematics	4 or 5	Calculus A-B: 3 pts. and placement in IIA or B;	
	3	3 pts. if IIA or B passed. Exemption.	
	4 or 5	Calculus B-C: 6 pts. and placement in IIIA, B, or C;	
	3	3 pts. if IIA or B passed; 6 pts. if IIIA or B passed. Exemption.	
Music	4 or 5	3 pts.	
Physics	4 or 5	3 pts.	(4 pts. with review of lab notes) and one term of two-term physics sequence
Political Science	5	3 pts.	

No credit will be granted for a college course equivalent to the AP course.

Other Degree Credit

Students who have satisfactorily completed courses before the freshman year at Barnard may apply for a maximum of 15 points of degree credit. The courses, must be intended primarily for college students at the college by members of its faculty. With the exception of Advanced Placement courses overseen by the College Board, courses taught in a high school, either by specially trained high school teachers or by college instructors, will not be credited toward the Barnard degree. Any course counted toward the high school diploma cannot receive degree credit.

III. Financial Information

Annual Tuition and Fees

The costs of education at Barnard are met by tuition, income from endowment, current gifts from alumnae and other friends of the College, and grants from foundations, corporations, and government agencies. The College makes every effort to limit charges to students, but must reserve the right to set tuition and fees at the level necessary for the maintenance of a high quality of instruction.

Schedule of Annual Tuition and Fees

The following tuition and fees are required from all students for the Academic Year 1988-1989 and are subject to change without prior notice.

Tuition:

Full program (12-18 points)	\$12,436
Partial program (1-11½ points)	414 per point
Excess program (over 18 points)	414 per point
Program for Resumed Education. Tuition is assessed on the basis of a schedule available from the Director of the program in the Office of the Dean of Studies.	
Comprehensive Fee Includes:	\$482.00
Accident and Sickness Insurance (see page 32)	
Student Government Association Student Activity Fee	

The following fees are required from all students occupying college housing facilities for the Academic Year 1988-1989.

Residence Charges

Brooks, Hewitt and Reid Halls (Board required—see schedule below)	
All other college housing (see schedule below)	
Single occupancy	\$3,760
Multiple occupancy	3,350
Board Charges —Required of all those living in Brooks, Hewitt or Reid (BHR)	
19 Plus Plan—19 meals per week—minimum requirement for freshmen	2,282
14 Plus Plan—14 meals per week	2,048
210 Plus Plan—210 meals during the year—10 meals per week	1,890

Financial Information

Other fees—required if applicable

Application for admission	\$40
Registration in absentia (per semester)	75
Physical education—part-time students (per course)	414
Orientation fee—All Freshmen and Transfers entering in the Autumn Term	100
Senior fee—All graduating seniors	100
Course fee (per semester)	
French	5
Film fees	
Art History—Autumn	5
Art History—Spring	30
French	20
Italian	30
Laboratory fees (per laboratory course)	
Biological Sciences	35
Chemistry—General	28
Chemistry—Other	35
Bio-Chemistry	45
Computer Lab (per semester)	25
Psychology	20

Payment of charges and fees

All charges and fees (unless otherwise noted) are billed on a semester basis. The Autumn Term tuition is due August 1. The Spring Term tuition is due by December 15. Payments received after these dates are subject to a late processing fee of \$50. Registration for either semester will not be complete until all College costs have been paid. Failure to complete registration on time imposes a late registration fee. Occupancy of an assigned dormitory room will not be permitted until charges have been paid in full as required. Students admitted after August 1 or December 15, respectively, must pay the balance due by the first day of registration.

Financial aid grants and any loans applied for may be deducted from the semester charges before computation is made of the balance due.

Privileges of the College, including issuing of transcripts and diplomas, and administration of examinations, are not available to any student who is delinquent in the payment of her College bills. When bills are **not** paid in full by their due date or satisfactory arrangements for their payments have not been made with the Bursar, the student will not be allowed to register and may be required to withdraw from the College.

All charges and fees are subject to change at any time at the discretion of the Board of Trustees.

Checks or money orders in payment of tuition and fees must be in **U.S. funds at a U.S. bank** payable to Barnard College. Checks or money orders should be made out for the exact amount of the payment due.

Deposits

To obtain a place on the College roster for the ensuing academic year, each student who is currently enrolled must pay a deposit of \$200 toward annual tuition and fees on or before May 8. An applicant for admission must pay a \$200 non-refundable tuition deposit upon acceptance of the offer of admission to Barnard College.

Students in Residence

New students who have been offered residence space must submit a housing deposit of \$100 by May 8. If the Office of Student Life is notified of a cancellation of the room request by July 1, \$100 will be refunded or credited to the student's account. All return-

Financial Information

ing “resident” students must pay the \$200 room deposit in person prior to the room lottery held in March (\$100 is non-refundable to those students who participate in the room lottery).

Deferred Payment

For students and parents desiring to pay education costs in monthly payments, a choice of payment plans is available. The College has arranged to participate in the Tuition Plan of New England, tuition plans offered by Knight Insurance Agency, Inc., and the payment plan of Academic Management Services, Inc. Information can be obtained from the Barnard Bursar.

Adjustment of Tuition for Changing Program of Study.

If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be credited the excess only if the alteration in her program is made by September 16 (last day of program filing) in the Autumn Term and by February 1 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

Refunds for Withdrawal.

If a student withdraws from the College **before July 1**, the following amount of tuition and residence fees will not be refunded:

Tuition	\$200
Resident Fees	\$200 (\$100 for new students)

A pro-rata credit of remaining charges is made on a semester-by-semester basis in accordance with the following schedule:

Fees. All required fees are non-refundable after Autumn and Spring Term registration dates as noted in the College calendar.

Tuition. Tuition credit for withdrawal is as follows:

Up to and including the first Friday of the term—full credit except deposit (\$200). After the first Friday of the term, 10% of tuition will be retained by the College for each week or part of a week up to the date on which the student’s written notice of withdrawal from the College is received by the Office of the Dean of Studies.

Residence Charges. Up to the first day of classes—full credit except deposit (\$200). In the event of withdrawal from housing while still enrolled in the College, 80% of charges will be forfeited during the first two weeks after the first day of classes. Thereafter the entire amount for the semester will be forfeited.

Optional Board Plan. Pro-rata credit from the date a change form is completed in the Bursar’s Office. A \$50 service fee is charged to drop or change a current meal plan. Please note specific meal plan requirements (see page 19).

Safekeeping of Students’ Funds

Barnard College is not able to receive funds from students for safekeeping or to cash personal checks or traveler’s checks.

To cover immediate expenses, a student should have traveler’s checks, which can be cashed at a local bank, or money orders, which the Columbia University Station of the U.S. Post Office will cash upon presentation of a validated ID card. Validated ID cards are issued after students register at the beginning of each term.

Financial Aid

Insofar as possible, Barnard assists qualified students who demonstrate financial need. Barnard does not discriminate against applicants for financial aid on the basis of race, color, creed, national origin or handicap.

Financial Information

Financial aid from the College consists of grants, loans, and opportunities for part-time employment. In addition to providing financial aid from its own funds, i.e. gifts, endowment, and general income, Barnard participates in the following Federal programs: the Pell Grant program, the Supplemental Educational Opportunity Grant program, the Perkins Loan program, the Federally Guaranteed Student Loan program, the Parents Loan for Undergraduate Students program, Supplemental Loans to Students, and the College Work-Study program. Barnard also participates in the New York State Higher Education Opportunity Program (HEOP). Federal and State funds are administered by the College in accordance with government regulations and the College's general policies relating to financial aid. To supplement the above mentioned financial aid sources, students are urged to investigate state loan and scholarship/tuition assistance programs and college tuition financing plans offered by local banks, insurance companies, SHARE loan program and New York Supplemental Higher Educational Loan Financing Program (SHELF).

Any student who thinks she will need financial aid in order to attend Barnard is encouraged to apply for aid. The decision of the Committee on Admissions to admit a student is not affected by the fact that a student has applied for or demonstrated need for financial aid.

A detailed explanation of current College policies and awarding practices may be found in the brochure, *Barnard College Financial Aid Policies and Procedures*, available from the Office of Financial Aid.



IV. College Life

Barnard students soon discover that their classmates may also be counted among the principal resources of their undergraduate years. Cosmopolitan in nature, the student population includes residents from nearly every state and some fifty foreign countries as well as those who live within commuting distance. Diversity is one generalization that can be safely made about Barnard students, and a mingling of economic, regional, ethnic, and cultural groups is evident in campus life.

STUDENT GOVERNMENT AND ORGANIZATIONS

Since the early seventies the structure of Barnard's student government has undergone fundamental revision, culminating in the development of College Committees on which students, faculty, and administrators serve, and which recommend policy and procedural changes in the areas of curriculum, housing, financial aid, college activities, athletics, and commencement.

All Barnard students are members of the Student Government Association, which elects a representative government and sponsors extracurricular activities and special events reflecting the range of cultural, political, pre-professional, and academic interests of the student body. These groups, which include the Clay Collective, Barnard Organization of Black Women, Barnard Spanish Club, New Inter-Cultural Encounters Club, and the Community Youth Program, for example, are funded by the assessment of the Comprehensive Fee. The student newspaper, *Barnard Bulletin*, is published weekly and the *Barnard Literary Magazine* is an annual publication. Students with a variety of talents collaborate to produce Winter and Spring Festivals featuring concerts, theatre and dance performances, art exhibitions, ethnic food, and pottery and plant sales. Theatre-Goers Guild offers students the opportunity to attend professional dance, theatre, and opera in New York at reasonable prices. Students in many academic disciplines supplement course work with department-sponsored programs, lecture series, and performances during the school year.

Cooperation between Barnard and Columbia groups is common. Many activities such as the University's chorus, orchestra, radio station, and community service programs enlist members from both campuses. Religious organizations and activities with headquarters on the Columbia campus in Earl Hall encompass every faith and are open to all students. For more complete information, students should consult *Barnard College Student Guide* and inquire at either the College Activities Office or the Undergraduate Association office in McIntosh Center.

The Physical Education Department offers an extensive recreation, intramural, and club sports program. Participation in a friendly competitive atmosphere is emphasized and activities are open to all members of the college community. The Intercollegiate Athletics program is operated in cooperation with Columbia University as a consortium in NCAA Division I and includes varsity teams in archery, basketball, cross country, fencing, indoor and outdoor track and field, swimming and diving, tennis, and volleyball.

College Life

Students have excellent facilities available for recreation and intercollegiate team practice and competition. Barnard facilities include a snack bar, lounge, music practice rooms, pottery studio, dark room, and bowling alleys in McIntosh Center; swimming pool, gymnasium, running track, fencing and dance studios in Barnard Hall; and tennis courts just one block away in Riverside Park. Barnard students have access to all recreational and athletic facilities of the University as well. The Dodge Fitness Center, opened in 1974, includes the Levien Gymnasium with a seating capacity of 3,499; the eight-lane Uris Swimming Center; 17 squash and handball courts; a well-equipped training room; locker rooms and sauna. Women's intercollegiate and club teams also use outdoor facilities at Baker Field, a 26-acre complex at the northern tip of Manhattan that includes a new 20,000-seat stadium, with an eight-lane, all-weather, NCAA-regulation running track, and practice fields. There are seven composition tennis courts and a modern tennis clubhouse; facilities for crew, and a spacious field house.

About thirty-five miles from New York, Barnard maintains a twenty-acre camp and lodge, Holly House, for both recreational and educational purposes. For additional information and fees, contact the Holly House Secretary, Alumnae Office, 221 Milbank Hall.

STUDENT CONDUCT

The Honor Code, instituted at Barnard in 1912, governs all aspects of academic life and is enforced by an Honor Board that has a membership of students and faculty members. A more complete explanation of the system may be found in the *Barnard College Student Guide*. A Judicial Council of undergraduates, faculty, and staff recommends disciplinary action for non-academic offenses.

Each student who registers at Barnard agrees to maintain the Honor Code, which provides that she will not ask for, give, or receive help in examinations or quizzes, or present oral or written work that is not entirely her own. Library regulations and independent study courses are also governed by the code.

Policies and regulations concerning student conduct on the University campus and in the College residence facilities are recommended by student, faculty, and administrative committees to the Vice President for Student Affairs, the President, and the Board of Trustees. Hearing and appeal procedures are also outlined in *Barnard College Student Guide*. All decisions are subject to review and final disposition by the President.

Enrollment in the College, award of academic credit, and conferring of the degree are subject to disciplinary powers vested by the Barnard Board of Trustees in appropriate officers of instruction and administration and in College Committees.

HOUSING

Barnard strives to maintain as diversified a housing program as possible, providing several options for students. These options include traditional dormitories, suite arrangements, and apartments in College-owned buildings adjacent to the campus. In a cooperative exchange with Columbia College, about 209 spaces are available for those who choose coeducational arrangements. Apartments have also been secured in buildings off-campus which meet the standards for College-operated residences. The college has residence facilities for approximately nine-tenths of the student population. In addition, some students live in independent housing they maintain in the campus vicinity. The College offers all incoming freshmen the opportunity to elect to live in College-provided housing. Policies regarding eligibility for housing and manner of assignments are formulated by a College Housing and Campus Environment Committee with a membership of students, faculty, and administrators.

Eligibility

Eligibility criteria have been established in order to assign available space on an equitable basis. These regulations may be changed as needed at the discretion of the College, but insofar as possible the following criteria will determine eligibility:

College Life

1. A student must be registered for a full academic program. Exceptions may be made upon review of appeals submitted to the Dean of Studies.
2. A student receives “resident” classification and priority if the principal residence of her parent or legal guardian is in the geographic area classified by the College as beyond commuting distance.
3. A “Commuter” is a student whose permanent residence is within the geographic area classified by the College as within commuting distance. Commuters are eligible for College-assigned housing when they enter as freshmen, and thereafter as space is available. Students may consult an off-campus housing registry for help in obtaining accommodations near the College. Some dormitory rooms are reserved for commuters for occasional overnight accommodation. Per diem fees are charged for these rooms.
4. Any student may live off-campus regardless of rank. (A permission form signed by the parent or legal guardian must be on file in the Office of Residential Life for any student under 18 years of age who wishes to live off-campus but not at home.) Resident students who choose to withdraw from College housing lose their class priority in room selection, unless waived at the discretion of the Dean.
5. A student is responsible for reporting any change in permanent address to the Registrar of the College, and to the Office of Residential Life.

Request for Resident Status

Discretionary decisions and appeals regarding status may be reviewed by an Appeals Committee, whose decisions are final and binding.

Assignments

Returning upperclass students are assigned rooms in college residences on the basis of a lottery and room selection. Incoming freshmen, readmitted upperclass students, and transfer students are assigned rooms by the Office of Student Life.

Requirements

The rules and regulations regarding housing deposits, payments and refunds, and the use and occupancy of rooms are in the “Terms and Conditions of Student Residence in Barnard College Housing” which is given to students selecting College housing and which must be signed by them before they may accept rooms.

Housing Facilities

The College provides in its residence halls supervision under the direction of the Office of Residential Life. This includes resident directors, graduate and undergraduate student assistants, twenty-four-hour desk attendant coverage, and regular security guard patrols.

Brooks, Hewitt, and Reid Halls or “B-H-R” at the south end of the campus, are operated as a single complex with space for about 515 students. Reid Hall is an all-female building housing first year students who are assigned to double rooms. Brooks and Hewitt are predominantly upperclass dormitories. Some floors in Hewitt are co-educational. There are also eight wheelchair-accessible, modified suites located in Hewitt. All students living in these halls must subscribe to a College meal plan.

A new residence hall, opened in 1988, completes the B-H-R quadrangle with 400 additional student spaces in dormitory rooms and suites. It allows the housing on campus of all freshmen and provides many amenities for the whole community.

“616” West 116th Street, an apartment-style residence directly across the street from B-H-R, provides housing for 207 students in suites of single and double rooms. Each suite has a kitchen and a bath.

“600” and “620” West 116th Street are College-owned buildings comprised of student apartments of one to five single or double rooms with kitchen and bath, and apartments for community residents.

49 Claremont Avenue, a newly renovated building adjacent to the west side of campus, houses 131 students. Rooms are on common corridors in suites with shared baths, kitchenettes and lounges.

College Life

Plimpton Hall, an apartment-style dormitory on Amsterdam Avenue and West 121st Street, a short walk from the main campus, provides housing for 280 students in suites of five single rooms. Each suite has a kitchen and bath. Approximately 115 Columbia students reside there in suites.

College Residence Hotel at 601 West 110th Street has about 50 apartments leased by the College. This offers students the option to live off-campus, only six blocks down Broadway, in a building with College-provided supervision.

Board

The College offers all students meal plans in Hewitt cafeteria and McIntosh snack bar. All freshmen and residents of B-H-R are required to be on a meal plan for the full academic year.

Married Students

Students who plan to marry during the academic year and continue in college are asked to notify the Dean of Studies. Married students, as a rule, will not be allowed to remain in the College residences. They will be subject to the financial obligations which pertain to any student who withdraws from the residence halls or from the College during the term.

Financial Aid for Room and Board

A resident student may use the Room and Board portion of her financial aid award for college housing, or if she prefers, toward her own non-Barnard housing. No resident student ever receives more financial aid for Room and Board than the amount required to cover the cost of living and eating in College residences. Commuter students do not receive financial aid for Room and Board.

THE BARNARD CENTER FOR RESEARCH ON WOMEN

The Barnard Center for Research on Women was founded in 1971 to express Barnard's longtime commitment to women and to show Barnard's enthusiasm for the new women's movement. Today the Center is a nationally recognized research institute that extends its resources to all members of the Barnard community as well as to the public. Through a wide range of programs, conferences, lecture series, and seminars, the Center publicizes the most advanced research feminist scholarship can provide.

An annual academic conference, *The Scholar and the Feminist*, has continued inquiry into the impact of feminism on traditional scholarship over the past fourteen years. In recognition of their catalytic effect on the development of new research on women, the results of workshops are often published as scholarly and policy-oriented papers.

The Barnard Center for Research on Women also sponsors a number of other programs. The Reid Lecture brings to Barnard distinguished women in public life and the arts who have shown a commitment to other women. A series of monthly luncheon meetings focuses on significant women's issues with guest speakers drawn from all areas of life. A Women's History Seminar, monthly discussions with women scientists, and a series of topical issues known as Conversations about Women, which attract students, faculty, alumnae, and members of the public, complete the regular offerings of the Center. To provide the results of the research and experience presented in the conferences and seminars, the Center publishes *The Barnard Occasional Papers on Women's Issues*, which includes papers given at the conferences and seminars the Center regularly presents.

The Center, a world-famous repository of material about women, maintains an expanding resource collection of over 11,000 books, articles, and special newsletters, and subscribes to over 100 feminist periodicals. It serves as a clearing house for current information on women's studies programs, research on women, women's professional and activist groups, and special events for women.

Located in 100 Barnard Hall, the Women's Center is open throughout the year and is available to journalists, researchers, writers, and any other member of the general public who wishes to use it.

V. The Library

Wollman Library and Other Library Resources

The Wollman Library occupies the first three floors of the Adele Lehman Hall. The main collection of more than 160,000 volumes, arranged on open shelves, contains books and microforms selected to cover curricular requirements and provide opportunities for independent work in many fields. A large collection of musical and spoken records, a wide selection of periodicals and journals, and a growing collection of instructional videotapes supplement the book collection. There are ample facilities for the use of records and videotapes, and the reading areas contain individual study carrels. The first floor houses a collection of material used in current courses.

Special collections in the library include the Barnard Archives, a historical collection of official and student publications, documents, letters, and photographs from Barnard's founding in 1889 to the present; the Alumnae Collection of works by former Barnard students; the personal library of the Nobel Prize-winning Chilean poet Gabriela Mistral; the Overbury Collection of 3,300 books and manuscripts by and about American women authors; and a small rare book collection. The library has an especially strong collection in women's studies, supplemented by the resource collection of the Center for Research on Women. A separate Chemistry Library is located in Altschul Hall.

When the College is in session the main library is open seven days a week. The Reference Department offers an instruction program to help each student develop efficient library skills. In addition to the standard research materials, the library provides computerized information sources. The Media Services Department provides additional support for the instructional program and organizes the annual film and video festival, "Works by Women."

Barnard students also have access to Columbia University's libraries with over 5 million books, 3.5 million microforms, and over 60,000 serial and periodical listings, and to the libraries of Teachers College and Union Theological Seminary. In addition to these campus libraries, students may use the many libraries and collections in the metropolitan area, some open to the public and others accessible by special arrangement.

An Apollo Laser Reading Machine is available for use by visually impaired students and others who need print magnification. Barnard's students may also use the Kurzweil Reader available through the Columbia University Library.



VI. Advising and Student Services

ACADEMIC ADVISING

Academic advising is coordinated by the Dean of Studies who oversees the assignment of an adviser to each entering student. Although responsibility for the fulfillment of degree requirements (see page 33) rests with the student, her academic adviser is prepared to help her match her program of courses to her individual goals and priorities, to acquaint her with the full range of academic resources available at the College and the University, and to respond to her questions on the curriculum and academic policies and procedures. Also available for assistance are her Class Dean, the entire staff of the Dean of Studies, and the other members of the Barnard faculty.

Class Deans and Advisers, 105 Milbank, 280-2024

After being notified of acceptance to the College, each entering freshman will receive a program form and the Freshman Program Guide from the Freshman Class Dean. The student selects courses for the Autumn Term and returns the completed program form to the Class Dean who, insofar as possible, schedules classes accordingly. Class schedules and registration materials are distributed when students arrive on campus in September. The Freshman Class Dean also assists the Dean of Studies in coordinating the academic advising of freshmen, directs the planning for freshman orientation with the help of a committee of upperclass students, and oversees other special programs for freshmen.

Assistance in planning courses of study is given to freshmen and sophomores by the class advisers. Group meetings with class advisers are scheduled during freshman orientation and program-planning periods. For individual advising, students may schedule appointments in 105 Milbank and departmental offices. Group meetings with departmental chairmen and other professors are arranged periodically to facilitate the selection of majors.

In the second semester of her sophomore year, each student chooses her major field in consultation with the Sophomore Class Dean, her class adviser, the academic department and the Director of Career Services. During her junior and senior years, her major adviser guides advanced study for the undergraduate degree and is the principal source of information on preparation for graduate school. Also available to her for general academic guidance are the Junior and Senior Class Deans.

While it is the student's responsibility to fulfill all degree requirements, the Senior Class Dean reviews each senior record and advises on graduation status. A senior handbook, sent to campus mailboxes at the beginning of the Autumn Term, describes College policy on honors, application procedures for graduate or professional study, and deadlines for major examinations, GRE, LSAT, MCAT, and fellowship applications. The Senior Class Dean directs the planning for commencement with the help of class officers and the Commencement Committee.

Transfer Advisers, 104 and 105 Milbank, 280-2024

Incoming transfer students are assisted by the transfer advisers in planning their courses of study and designating a major field. Group meetings are scheduled late in the summer and during orientation, and individual appointments may be arranged in the Office of the Dean of Studies throughout the academic year. Transfer students who enter with junior class standing are guided by both transfer and major advisers during their first Barnard semester.

Other College Degree Candidates, 104 Milbank, 280-2024

Students who enroll for classes at Barnard but who will graduate from another college must have approval from the degree-granting school for course work to be completed at Barnard. Program-filing and registration are guided by an Assistant Dean in the Office of the Dean of Studies.

Advising and Student Services

International Student Adviser, 105 Milbank, 280-2024

Advice on situations arising from foreign student status is available in the Office of the Dean of Studies from the Assistant Dean designated to counsel international students.

Study Abroad, 104 Milbank, 280-2024

Students who wish to study abroad for credit toward the Barnard degree are urged to secure approval from the appropriate Assistant Dean in the Office of the Dean of Studies before leaving the country. Information and forms are available at 105 Milbank.

Pre-Professional Advising, 105 Milbank, 280-2024

Students who are interested in post-baccalaureate professional training may consult the Dean for Pre-Professional Students for help with programming, selection of schools, and submission of application materials. A student who plans to enter one of the health professions should seek advice in her first or second college year in order to discuss requirements and obtain a handbook. Consultation with the pre-professional advisers in the junior year is recommended for any student interested in law, social work, architecture, journalism, or business. The pre-professional secretary maintains recommendation files and forwards materials required for applications. (See pages 39-40.)

Graduate School Advising, 105 Milbank, 280-2024, and departmental offices

Students interested in advanced study in the liberal arts and sciences or the performing arts may consult appropriate faculty members and the Senior Class Dean. A student who plans to apply to graduate school should, in her senior year, establish a file with the secretary for graduate school recommendations in the Office of the Dean of Studies.

Higher Education Opportunity Program, 5 Milbank, 280-3583

The Higher Education Opportunity Program, a support service to meet the needs of New York State undergraduate women from backgrounds that are disadvantaged economically and academically, provides counseling, tutoring, and financial assistance. In a six-week summer program, all incoming HEOP students receive instruction in English, mathematics, research, and public speaking skills. During the academic year, tutoring, workshops, and study groups are available in addition to academic and personal counseling.

Resumed Education Program, 105 Milbank, 280-2024

For advice on academic study and college services for students returning to Barnard after absences of five years or more to complete the A.B., or for graduates redirecting their careers and exploring new interests, the Director of the Resumed Education Program in the Office of the Dean of Studies may be consulted.

STUDENT SERVICES

Career Services, 11 Milbank, 280-2033

The Office of Career Services helps students and alumnae define and implement career plans. To provide this service, the Director and career advisers have designed projects enabling them to explore careers, to keep informed about current labor market trends, and to earn money to finance their education. All placements for the Federal College Work Study Program are made through this office. In addition, individual counseling on careers and related concerns is available.

A newsletter published by the staff informs students about career programs and group counseling sessions. To aid students and alumnae in exploring career areas, the Office maintains CONTACT, a file listing over 1400 alumnae who are available to discuss their fields; a library of vocational materials; and a collection of graduate school catalogues. Workshops on specific concerns, such as resume writing and job interviews, are conducted when the College is in session.

To enable students to clarify vocational interests, the Office sponsors internships in many professional fields and occupations for a semester, the summer, or the January intersession. Interns gain work experience on a more professional level than students ordinarily can.

Advising and Student Services

The Office, which is open twelve months a year, has contacts with many academic institutions, museums, business firms, hospitals, government agencies, libraries, and a large number of other potential employers who post full-time jobs regularly with Career Services. *The Job Seekers Newsletter* announcing these full-time job opportunities is issued every two weeks and is mailed to alumnae who request it. Corporate employers interview seniors on campus in the spring semester Recruitment Program for major training program opportunities. Students use part-time and temporary job listings for both on- and off-campus jobs. The Barnard Babysitting Service and the Barnard Bartending Service, student-run services supervised by the Office, receive thousands of requests annually and provide work for many students. Students and alumnae may establish permanent recommendation files at the Office of Career Services for future employment.

Program for Students with Disabilities, 7 Milbank, 280-4634 and 8466 Voice/TDD

In 1978, Barnard established a program to provide disabled women with services which enhance their educational, pre-professional, and personal development. The Office for Disability Services serves students with a broad range of disabilities, including visual, mobility, and hearing impairments and students with hidden disabilities such as chronic medical conditions and learning disabilities. The Dean for Disabled Students and her staff work with other administrators and members of the faculty to assist disabled students in participating in college activities, securing financial aid, scheduling classes and examinations, and planning careers. Mobility aides, readers, tutors, and note-takers are available on request. The 504 Access Committee works to reduce architectural, programmatic, and attitudinal barriers at the College.

The buildings on the contiguous campus interconnect. Classroom and other facilities are accessible to disabled students. Maps of the campus showing special features and access routes are available at the Office for Disability Services.

Financial Aid, 14 Milbank, 280-2154

Students who have questions or problems regarding financial aid are encouraged to make appointments with counselors in the Office of Financial Aid. Advice is available on applying for financial aid, budgeting, and computation of financial aid awards. For more detailed information, students should consult page 21.

Health and Counseling Services, Brooks Basement, 280-2091

The Student Health Service, located in a complex of offices in Brooks Hall, Lower Level, provides diagnosis and treatment of all major and minor health problems and preventive health care in relevant areas. The staff is composed of a Director (an internist), consultants in Adolescent Medicine, Gynecology, and Dermatology, three nurses, and an administrative staff. The Mental Health Service is staffed by three psychiatrists, two psychologists, and a psychiatric social worker.

The medical questionnaire and the physician's report, required of every student as prerequisite to enrollment, are filed with the Health Service. Complete examinations are performed for seniors in the Autumn Term and sophomores in the Spring Term. These examinations are not mandatory, but are recommended and are required if health certificates are needed. All students regardless of residence must immediately report any illness, however minor, to the Student Health Service.

Both the Health Service and the Mental Health Service are available to all Barnard students and are covered by the Comprehensive Fee. These service are not available during College vacations. Students are entitled to the following:

- 1) an unlimited number of visits to the staff physicians;
- 2) an unlimited number of visits to the gynecologists and dermatologist;
- 3) use of the Mental Health Service;
- 4) weekend and night-time coverage.

Advising and Student Services

All Barnard Students who have paid the Comprehensive Fee are covered for the Basic Accident and Sickness Plan benefits of the Barnard Student Insurance Plan. The insurance plan provides benefits toward the cost of the following services when ordered by a Barnard staff physician:

- 1) hospitalization for illness or accident;
- 2) laboratory tests and x-rays;
- 3) consultations.

The following services are not covered:

- 1) home visits;
- 2) consultations when the College is not in session;
- 3) dental care (except for treatment of injury to sound natural teeth)
- 4) filling of prescriptions by outside physicians.

For additional information, students are encouraged to consult *Barnard Health Service*, *A Student Guide*, and the brochure describing the Barnard Student Insurance Plan, which are available at the Student Health Service.

Resident Assistants

As part of the student support network, upperclass students in each residence facility are designated as Resident Assistants to answer questions on campus life for resident students, to provide liaison with other services, and to aid in residential programming.

Commuter Affairs, McIntosh Center

The Commuter Affairs Office is a place where commuters can meet each other as well as receive information about off-campus housing, transportation, carpooling, parking, and temporary on-campus accommodations. The office also coordinates the Urban New York Program and initiates educational, cultural, and social programs designed to enrich commuter life.

Women's Counseling Project, Reid Hall, 280-3063

Affiliated with the Barnard Women's Center, the Women's Counseling Project is a free, confidential referral service specializing in the areas of health care, therapy, sexuality, and the law.

Recommendations

Students may establish recommendation files for employment in the Office of Career Services, for graduate study with the recommendations secretary in the Office of the Dean of Studies, and for professional schools with the pre-professional secretary in the Office of the Dean of Studies. For procedures and policy, the appropriate office should be consulted.

Student Records and Information

The Family Educational Rights and Privacy Act of 1974 (the Buckley Amendment) stipulates that students may have access to their official files and that no transcripts may be issued without their written request. A further explanation may be found in the *Barnard College Student Guide*.

Also in accordance with the Buckley Amendment, Barnard has the right to make public, at its discretion and without prior authorization from the student, the following information: name; class; home or college address and telephone number; major field; date and place of birth; dates of attendance at Barnard; degrees; honors and awards received; and previous school most recently attended. The law also gives students the right to place limitations on the release of this information. A student who wishes to do so must file a special form with the Registrar, 107 Milbank, each year by September 15. In practice, the College does not indiscriminately release information about individual students.

VII. The Curriculum

Requirements for the A.B. Degree

Students are recommended by the Faculty of Barnard College to the Trustees of Columbia University for the degree of Bachelor of Arts, the only degree awarded to Barnard students. The degree requires the satisfactory completion of 120 points of academic work and two terms of physical education. As parts of the 120-point requirement, all students must complete a major and must fulfill general education requirements.

Major Requirements

All students must complete the requirements of an approved major. The number of required semester-courses for the major depends on the major chosen (see individual department and program curriculum statements), but a minimum of six such courses must be completed while the student is enrolled at Barnard. A course graded D will not satisfy a major requirement.

The student registers her chosen major with the Office of the Registrar and with her major department or program, normally in the second term of her sophomore year. The major may be chosen from any listed in the Barnard Catalogue. A student may major in two fields by satisfying all the major requirements prescribed by each department, with no overlapping courses. If either of the fields qualifies for the distribution requirement, two of the courses in one field may count toward that requirement. A combined or special major may be designed in consultation with the chairmen of the appropriate departments and with the approval of the Committee on Programs and Academic Standing. Committee approval is not needed for the combined major that comprises all the course requirements of two majors and **one** integrating senior project, but the form designated for such a combined major must be filed with the Registrar and the two departments.

General Education Requirements

Barnard's general education program is designed to provide direction and continuity while giving students opportunities to shape their own programs of study. Barnard offers a rigorous but flexibly structured set of requirements which afford students a range of choice in almost every instance. The requirements are as follows:

FRESHMAN SEMINAR

Freshmen are required to take this one-semester course, which provides special opportunities to develop some of the intellectual skills and styles which will be central to subsequent academic work. The enhancement of strong writing and communication skills is emphasized, as is the group-discussion mode of intellectual inquiry and discourse. Seminars adopt major themes or issues, and participants read and discuss leading philosophical, historical, literary, or scientific statements of them. A full list of Freshman Seminars, with descriptive information and the names of instructors, appears on page 150. Transfers are not required to take the Freshman Seminar.

FRESHMAN ENGLISH

Freshmen must take this one-semester writing course designed to cultivate and develop prose writing and related tools of scholarship. Reading and writing assignments focus on major works of literature. Some students may gain exemption from the course with an Advanced Placement test score of 4 or 5. Foreign students are required to exhibit a degree of fluency before enrolling in this course. Transfers are not required to take Freshman English but must have earned exemption or completed an equivalent course before graduation.

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FOREIGN LANGUAGE

Students must achieve basic competence in one ancient or modern foreign language. The requirement is fulfilled by completion of the fourth sequential semester, or a more advanced course for which the fourth semester is prerequisite. (In Latin, both Latin BC2003 and BC2004 or their equivalents must be completed.) The faculty recommends that (i) the third and fourth semesters be completed at Barnard; (ii) elementary courses be completed in the freshman year; (iii) courses be taken consecutively without interruption; and (iv) proficiency be established by the end of the junior year. Reenrollment without credit is required, whenever feasible, for students whose work in any of the first three semesters is graded below C.

Exceptions:

1. A sequence that includes Italian V1301, V1302, and a year of literature will qualify.
2. Completion of Spanish BC3006, for students of Hispanic background.
3. Enrolled students who complete the third or fourth semester of French outside the Barnard department must take a departmental examination to qualify for fullment.
4. Enrolled students who wish to qualify in German are advised to take German BC 1204 at Barnard, for they will otherwise be required to take the German Department's placement examination on completion of the other-college course.

Exemptions:

1. CEEB Achievement score of 750 or higher.
2. AP score of 4 or 5.
3. Departmental examination.
4. Students with native English who study in a high school where the language of instruction is *not* English (e.g., French, for alumnae of the Lycée Français).
5. Foreign students without native English who complete English BC1201 or one satisfactory year at Barnard.

Placement:

1. CEEB Achievement score of

650-749	fourth semester
550-649	third semester
400-549	second semester
below 400	first semester
2. For transfer students: the course following that of the last satisfactorily completed semester course. Formal withdrawal and reenrollment without credit may be required for students who are judged by the department to be unsuitably placed and in need of additional preparation or review.
3. By departmental examination, if there is no CEEB score or previous college transfer work.

Credit:

1. Credit is given for courses satisfactorily completed in residence at Barnard or, in the case of a transfer, at her previous college.
2. No prior assurance of degree credit is given for summer or transfer work undertaken as a Barnard student. For work completed at other colleges, credit is granted with departmental approval, or by examination, or on completion of the next level at Barnard.
3. No duplicate credit is granted for work repeated at the same level.

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4. No credit for the first semester of an elementary language is granted unless a more advanced course is completed.

LABORATORY SCIENCE

Students must complete one science course (two semesters), with laboratory. Acceptable courses must meet for at least three hours of lecture and three hours of laboratory per week. The student must pass both the lecture and the laboratory portion of the course, and the College strongly suggests that the two be taken concurrently. The following courses meet these requirements:

Astronomy
Biology
Chemistry

C1103-C1104
Barnard BC1101-1102
Barnard BC1601 and BC1602
Barnard BC1601 and BC3230 with BC3328
C1403-C1404 with C1500 and one additional laboratory course, e.g. BC1702, BC3328, or BC3338.

Environmental Science
Geography

Barnard BC1001, BC1002
W1005-1006
C1001-1002

Geology

V1011-1012
V1021-1022

Physics

C1021-1022
F1003-1004
V1003-1004
F1006, F1007, C1011, C1012
C1406 with W1906, C1407 or C1607 with W1907
V1103-1104
V1305-1306
W1003-1004

Psychology

Barnard BC1105, BC1108, BC1117, BC1127, BC1130, BC1136, BC3256 (any two)

Students wishing to substitute a course-sequence not given above, transfer students, and those with Advanced Placement should consult with department chairmen for guidance with respect to fulfilling this requirement.

QUANTITATIVE REASONING

All students must take a placement test given at the Academic Computing Center during their first week of matriculation. (Students who fail the test must take QUR BC1001, Basic Math Skills, before satisfying the QUR requirement.) All students must then take one course in which the major topics are mathematics, methods of empirical analysis using quantitative data, or the use of symbolic manipulation to solve problems. After passing the placement test or QUR BC1001, the requirement may be fulfilled by taking and passing any of the following courses:

Chemistry

BC1601: General Chemistry 1
C1403, C1404; General Chemistry

Computer Science

W1003: Introduction to Computer Programming B
W1005: Introduction to Computer Programming C
All other Computer Science department courses carrying degree credit **except** W1001: Introduction to Computer Programming A fulfill QUR requirement.

Economics

V1411: Introductory Probability and Statistics for Economics
BC2411: Introduction to Applied Econometrics

The Curriculum

Environmental Science	W3071, W3072: Quantitative Techniques in Geography
History	BC3455: History, Historians, and the Computer
Mathematics	W1003: College Algebra and Analytic Geometry All other Mathematics courses carrying degree credit
Philosophy	V3411: Formal Logic A V3415: Formal Logic B
Physics	All courses except BC1001, BC1002: Elementary Physics
Political Science	BC3345: Introduction to Statistical Analysis of Politics and Policy
Psychology	BC1609: Statistics W1920: Statistics for Behavioral Scientists
Quantitative Reasoning	BC1101: Description, Development, and Decision BC1102: Size, Symmetry, and Sequence BC1103: Music and Mathematics BC1104: Mathematical Modeling in Psychology and the Social Sciences BC1105: Size, Shape, and Symmetry BC1106: Patterns and Predictions of Everyday Events BC1107: Numerical Patterns for Interpreting and Obscuring Written Communication BC1108: Paradoxes and Prejudice in Judgment BC1109: Decision Theory and Democracy V3212: Methods of Social Research V1111: Introduction to Statistics All other Statistics Department courses
Sociology	
Statistics	

Note: A student may fulfill the course requirement if she receives AP credit for a course equivalent to one of the above. Such students must still take the placement test.

A student who fulfills the science requirement in Chemistry or Physics simultaneously satisfies the Quantitative Reasoning requirement.

DISTRIBUTION

Students must complete four semester-courses outside the major department, two each in the Humanities and in the Social Sciences. One interdisciplinary course may be used to satisfy the requirement in each of the two areas.

The distribution requirement in the Humanities may be fulfilled by taking courses in Art History, Philosophy, Religion, Oriental Humanities, Studies in the Humanities, Medieval and Renaissance Studies; or by taking courses in any literature, the history or literature of music, the history of dance; Humanities C1001 or C1002; or designated courses in Women's Studies.

The distribution requirement in the Social Sciences may be fulfilled by taking courses in History, Oriental Civilization, American Studies, Anthropology, Economics, Linguistics, Political Science, Sociology; or designated courses in Women's Studies; or Contemporary Civilization C1101 or C1102.

The qualifying courses that are listed in this catalogue bear the letter H (for Humanities) or S (for Social Sciences) on the last line of the course description. The chairman of the appropriate Barnard department will determine the eligibility of all other courses.

The Curriculum

Electives

Apart from fulfilling general education requirements and major requirements, the student completes the remainder of the 120-point requirement with elective courses, either within or outside the major department, subject to the approval of the appropriate adviser. No more than 18 points of studio, performing arts, or professional school courses (including film) may be credited toward the A.B. degree. (Of these, a maximum of four arts studio courses may be credited, and a student who takes more than two is required to validate each additional studio course with a course in art history. Similarly, a maximum of four courses in instrumental instruction may be credited, and a student who takes more than two is required to validate each additional course of music lessons with a course in music theory.) Exceptions to this rule are allowed only for courses in the major field or for courses taken in fulfillment of requirements for double and joint degree programs with the professional schools of the University. A maximum of 24 points may be credited for studio or performance courses in the major field.

Physical Education Requirement

Students admitted as freshmen must complete two semesters of physical education at Barnard. One semester must be passed in the freshman year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of physical education at Barnard. Transfers are normally expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. The physical education requirement is in addition to the 120 academic-point requirement and is graded on a pass-fail basis.

Length of Residence

Students are expected to be registered full-time for four years. Transfer students must complete at least 60 points and two years in residence at Barnard to receive the degree (see below for additional information). Under certain conditions, it is possible for a senior to complete her work for the degree while registered **in absentia**, with the permission of the Committee on Programs and Academic Standing.

Requirements for Transfer Students

To receive the A.B. degree at Barnard, a transfer student must attend Barnard for at least four regular academic terms during which she must complete at least six courses in the major field (and three in the minor field, if a minor is elected). Additional major (and minor) courses, as well as general education requirements, may be satisfied by transfer courses. Exemption from the foreign language requirement may be attained on the basis of College Entrance Examination Board Achievement scores alone or by a combination of those scores and additional college work. Those who do not receive exemption must complete the normal language requirement (see page 34). Transfer students are eligible for general honors when both overall and Barnard averages meet the required academic standards.

Transfer Credit

Courses completed at other accredited colleges and universities may be submitted for transfer credit. Transfer courses are evaluated after a complete transcript is received in the Office of the Registrar. Students are asked to submit catalogues and course descriptions with their requests for transfer credit to the Registrar who notifies them of the evaluation by mail.

Credit for approved work at another institution is applied to Barnard's 120-point graduation requirement in proportion to progress toward the degree at the previous institution with a maximum of 16 points per term. Credit cannot be granted for courses with grades lower than C minus. Acceptable transfer work does not usually include applied or professional courses or more than the equivalent of two Barnard studio courses. The first term of an elementary language course is not credited unless or until the second term or a more advanced course has been satisfactorily completed.

The Curriculum

Summer work is not included in initial credit estimates. Transfer students may apply for credit for previous summer courses under the regulations governing Summer Study (see page 41).

Freshmen with a record of prior course work at an accredited college in the United States may request up to one semester of transfer credit provided that the courses were not applied to the high school diploma.

Classification of Students

Students are classified as follows:

MATRICULATED	Points completed
Freshman	fewer than 24
Sophomore	24-51
Junior	52-85
Senior	86 or more
Unclassified	transfer students who have not yet been assigned credit

NONMATRICULATED:

- Other college degree candidates
- Barnard alumnae auditing courses
- Barnard alumnae taking courses for credit
- Any other student who is not a degree candidate

A degree candidate (i.e., student who is matriculated) may not change her status to non-matriculated.

Filing of Diploma Name Cards

The Diploma Name Card, available at the Office of the Registrar, is the student's official notification to the Registrar that she expects to have completed all requirements for the degree and to receive the diploma on a particular graduation date. Degrees are granted in May, October, and January. The filing of the card sets in motion the processing of the student's academic records in preparation for graduation. It is the student's responsibility to file the Diploma Name Card before published deadlines (see College Calendar, page 6). Graduation ceremonies are held in January and May.

VIII. Other Academic Opportunities

Minor

The selection of a minor field of study is optional. A minor requires at least five courses (three of which must be required qualifying Barnard or Columbia courses) that total a minimum of 15 points, and may be designated by any student having a major after completing a minimum of three courses in the minor field. Requirements depend on the minor chosen (see individual department curriculum statements); courses are selected in consultation with the department chairman. Two of the courses taken for the minor may be used to fulfill the distribution requirement if the field selected qualifies for the requirement (see page 36). To qualify for the minor, a course must be letter-graded (A-C).

Senior Scholar Program

The Barnard Senior Scholar Program allows a qualified student to undertake a single project for the entire senior year, or for one semester of the senior year (normally the second). The Program is intended for the student who is unusually well prepared in an academic discipline or in one of the performing arts. It offers the special advantages of concentration on one project, designation as "Senior Scholar" on the permanent transcript, and the amendment of some major requirements. Senior Scholars are allowed credit for no more than 30 points. In the past, Barnard Senior Scholars have gained approval for a wide range of proposals.

A qualified student interested in the Senior Scholar Program should consult the Senior Class Dean, who is coordinator of the program, in her junior year. Before the beginning of the senior year, the student should have completed all but the major requirements for the A.B. degree. The student's written application for the Senior Scholar Program is submitted to the Committee on Honors by the coordinator and is subject to the approval of the Committee. The deadline for application appears in the College Calendar (see page 6).

Centennial Scholars Program

The Centennial Scholars Program offers students of outstanding achievement and ability an opportunity to engage in challenging independent projects tailored to their individual interests. Supplementing the regular Barnard curriculum, the Program enables Centennial Scholars to pursue individual objectives in specialized areas with the assistance of mentors, chosen in consultation with the Program directors.

Admission to the Centennial Scholars Program is based on evidence of intellectual creativity and advanced academic preparation. While many of the students in the Program are selected at the time of their admission to the College, the Program is also accessible to enrolled freshmen and sophomores who distinguish themselves during their first terms at the College. For additional information about admission to the Program, see page 6.

The Program confers a maximum of 18 points of credit toward the degree. In the spring of the student's first year as a Centennial Scholar, she enrolls in CEN BC1889, "Working with Ideas," an interdisciplinary course designed to lay the foundation for the core of the Program, an extended apprenticeship with her mentor(s). Her project may extend over two or three semesters, and may include a summer to accommodate travel or other particular needs. The Program culminates in the Centennial Scholars Symposium devoted to the public presentation of the project in the term of its completion. Dinner lectures, outings to museums, artists' studios, and research laboratories and similar activities are additional features of the Program.

The Centennial Scholars Program is governed by a committee consisting of the following members:

Other Academic Opportunities

Leslie Lessinger, Co-Director
Associate Professor of Chemistry

Barbara Miller, Co-Director
Milbank Professor of Oriental Studies

Vilma Bornemann, ex-officio
Dean of Studies

Dorothy Denburg, Academic Adviser to
Centennial Scholars
Associate Dean of Studies

Serge Gavronsky
Professor of French

Holland Hendrix
Assistant Professor of Religion

Hideko Ishiguro
Professor of Philosophy

Richard Pious
Professor of Political Science

Cary Plotkin
Assistant Professor of English

R. Christine Royer, ex-officio
Director of Admissions

Program Planning for Students Interested in Medicine or Dentistry

The basic pre-medical and pre-dental requirements are one year of biology with laboratory (Biology BC1101 and BC1102); one year of inorganic chemistry with laboratory (Chemistry BC1601 and BC3232); one year of organic chemistry with laboratory (Chemistry BC3230, BC3231, and BC3328); one year of physics with laboratory (Physics V1003-V1004 or Physics V1103-V1104); and two semesters of English. Highly recommended courses, required by some schools, are two terms of calculus or other college-level mathematics and one additional inorganic laboratory (Chemistry BC3338 or Chemistry BC3340).

Students should become familiar with the most recent edition of *Medical School Admissions Requirements*, an annual publication of the Association of American Medical Colleges, and Barnard's own *Handbook for Students Entering the Health Professions*, copies of which are available in 105 Milbank. The latter deals with many of the health professions (Optometry, Podiatry, Physical Therapy, and Public Health) as well as Medicine and Dentistry.

Pursuing a major in the sciences is not necessary for pre-medical students provided they include the aforementioned required courses in their programs. The science requirements should be completed in the year prior to the year of desired entry (i.e., in most instances the junior year), at which time students are advised to take the Medical College Admissions Test normally offered in April. The test is repeated in the early fall for those who wish to retake it or who, for compelling reasons, were unable to take it in the spring.

All students who are interested in the health professions should consult their class advisers as early as possible and should start a file with the Pre-Professional Secretary and consult with the Pre-Professional Dean in the Office of the Dean of Studies by the junior year at the latest. Applications for the standardized tests, school catalogues, and other relevant materials are available in 105 Milbank.

Program Planning for Pre-Law Students

There are no specific course requirements for entry to law school, nor is there any specifically recommended major. Admission to law school is based largely on grade point average and Law School Admission Test scores although other factors are taken into account. Students are encouraged to develop strong skills in writing and in speaking with precision, and to take programs that require demanding critical analysis and effective study habits. Information about law schools and what makes a good lawyer can be found in the *Pre-Law Handbook*, an annual publication of the Association of American Law Schools. Copies may be used in the Office of the Dean of Studies, 105 Milbank, which also collects law school catalogues and other relevant information.

Pre-Law students are encouraged to make themselves known to the Pre-Professional advisers in the junior year or earlier. The LSAT should be taken in June or October of the year prior to expected entry to law school; of these, the June test is recommended because it allows for better planning. Applications for the LSAT and for the Law School Data Assembly Service (a required transcript analysis procedure) arrive in April each year and can be picked up in 105 Milbank any time thereafter.

Other Academic Opportunities

Program Planning for Students Interested in Journalism, Architecture, Social Work and Business

Curricular planning should be made with an eye to some of the specific requirements in each of these fields. Familiarity with professional school catalogues in these areas is recommended. Information and printed literature is available in the Office of the Dean of Studies, 105 Milbank, and in the Office of Career Services, 11 Milbank.

Credit for Summer Study

Students are expected to complete the work for the degree in eight academic terms. Because Barnard does not offer courses during the summer, the granting of course credit for summer courses taken at other accredited institutions is treated as transfer credit, with some additional regulations. The maximum number of summer points that can be applied toward the degree for **course credit** is 16, subject to the approval of the Committee on Programs and Academic Standing. Although a student cannot receive degree credit for summer courses exceeding this maximum, she can fulfill degree requirements with additional summer courses, subject to the approval of the Committee on Programs and Academic Standing, and in some cases, subject to satisfactory performance on a Barnard Placement Examination. The full regulations on credit for summer study are available at the Office of the Registrar on the Application for Approval of Summer Session Courses. The student may find out in advance whether the courses she wishes to take in summer school meet the approval of the Committee on Programs and Academic Standing by completing the form and submitting it to the Office of the Registrar well before the end of the Spring Term. The application may also be retroactive. The student is advised to consult the application for the full regulations, some of which are listed below:

1. No more than eight points may be counted for one six-week summer session.
2. To be eligible for credit, courses normally must be of at least six weeks' duration.
3. **Grades** for courses taken in summer school must be letter grades in the A to C range; they are **not included in the cumulative grade point average**. These courses and grades will, however, be considered for admission to graduate or professional schools which normally require the submission of an applicant's transcripts from all the American and Canadian colleges she attended.

Study Abroad

Several options for study abroad are available to Barnard students.

Barnard offers opportunities for junior-year students to study in Great Britain at Oxford (Somerville College), Cambridge (Newnham College), or the University of London (University College or London School of Economics). Admission to these colleges is competitive. Those interested should consult with the appropriate Assistant Dean in the Office of the Dean of Studies no later than October of the sophomore year.

The **Reid Hall Program in Paris** offers a varied and attractive curriculum of courses in French language, literature, culture, art history, and women's studies. In addition to the courses offered at Reid Hall, students with sufficient preparation may enroll in courses in the French university system in a variety of academic disciplines. To qualify for admission to Reid Hall, the student must have completed one, or more years of college French with grades of B or better. It is possible to spend one term or an academic year in Paris. Each term about 100 students take part in this program. Some are French majors, but most are not. The student body is composed of undergraduates from Barnard and Columbia, as well as those from other colleges and universities. Reid Hall is owned and administered by Columbia University. It is located in the Montparnasse district of Paris near Luxembourg Gardens. The administrative staff of Reid Hall assists students in planning academic programs and in finding housing accommodations. Bulletins and applications are available in 419 Lewisohn Hall (or call 280-2559). To receive degree credit for courses taken at Reid Hall, the approval of the Committee on Programs and Academic Standing is required on a special form available at the Office of the Registrar, 107 Milbank.

Other Academic Opportunities

Barnard participates in the program of the Intercollegiate **Center for Classical Studies in Rome**. Students who have completed at least four semesters of Latin above the elementary course, and at least one semester of elementary Greek, are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be counted toward the major and, in some cases, toward the fulfillment of the distribution requirements.

Barnard also offers the opportunity to study at the **University of Rome** for the junior year. Those who are interested should consult with the appropriate Assistant Dean in the Office of the Dean of Studies no later than March of the sophomore year.

Barnard College is a Supporting Institution of the **American School of Classical Studies at Athens** and the **American Academy in Rome**, and certain privileges of those schools are available, without fee, to graduates of the College.

Course credit for courses taken at institutions abroad, other than the Barnard program in Paris, is treated as transfer credit (see page 37).

Study at Jewish Theological Seminary

The Jewish Theological Seminary of America, located two blocks from the Barnard campus, offers opportunities to Barnard students for specialized study under a cooperative arrangement. Students may enroll in courses at the Seminary under any of three options: (1) individual courses; (2) a year's study in residence at the Seminary; or (3) a double degree program.

A student wishing to study at the Seminary should consult her adviser and obtain the written permission of her major department chairman. Courses taken at the Jewish Theological Seminary are evaluated as transfer credit (see page 37 for rules on transfer credit). Students who wish to obtain simultaneously the degree of Bachelor of Arts from Barnard and Bachelor of Hebrew Literature from the Seminary must consult advisers in both institutions, and must be separately admitted to each.

Qualified Barnard students may request housing at the Seminary. Students who enroll in the Seminary College will be subject to both Barnard and Seminary tuition charges. Seminary College students may also apply to the Barnard Admissions Office to become special students or to fulfill the requirements for the A.B. degree at Barnard.

Study at the Manhattan School of Music

The Manhattan School of Music is located one block to the north of the Barnard campus. Under a recently established program of cross-registration, musically qualified Barnard students have the opportunity to enroll in four semesters of private music lessons at the Manhattan School, subject to the regulations specified in the application form available at the Office of the Registrar. Majors in music may take eight semesters of lessons. Students interested in those options should consult with the chairman of the Barnard Music Department.

Special Academic Programs

Barnard offers a summer academic program for secondary school students, "Summer in New York: Barnard's Pre-College Program." Program information and applications are available in the Office of the Dean for Special Academic Programs.

DOUBLE AND JOINT DEGREE INTRAUNIVERSITY PROGRAMS

Barnard offers double and joint degrees in coordination with other schools in the University system, including the School of International and Public Affairs, School of Engineering, and Law School. Details on specific programs are given below.

School of International and Public Affairs

Barnard College and the Columbia University School of International and Public Affairs offer a joint program leading to the A.B. degree at the end of four years and the M.I.A. (Master of International Affairs) after one additional year.

Application to this program is made through the Office of the Dean of Studies by March 1 of the junior year but, to ensure appropriate guidance and preparation, con-

Other Academic Opportunities

sultation is recommended in the sophomore year with the Senior Class Dean at Barnard. Although the Dean of Studies determines application procedures and may nominate as many as four students, the final decision regarding admission to the joint program rests with the SIPA Review Committee. The nominees will arrange for an interview with two SIPA deans before the last day of classes in the spring term.

A Barnard student's eligibility for the joint program with SIPA is governed by the following conditions:

1. A minimum grade point average of 3.3.
2. At least four semesters of matriculation at Barnard before enrolling in the joint program.
3. Fulfillment of all basic and distribution requirements before the senior year.
4. No more than four courses (16 points) in the major to be completed during the senior year.
5. Completion of introductory courses in microeconomics and macroeconomics and, if possible, a course in statistics by the end of the junior year. (No SIPA transfer credit is given for these courses.)

A Barnard student in the program must satisfy all Barnard degree requirements. Courses in the School of International and Public Affairs may be used to fulfill major requirements only with the written permission of the chair of the major department. As a senior, after consultation with a SIPA dean and her major adviser at Barnard, she will elect 15 to 18 points of SIPA course work, including a substantial part of the SIPA Core (A) Requirement. A typical program would include most of the 12 credits of courses at the 4000 level or above in the following areas:

1. International politics
2. International law
3. U.S. foreign policy
4. Foreign political processes (comparative politics)

A grade of B or better is required in all courses for which transfer credit is granted.

Admission to the joint program does not constitute admission to the School of International and Public Affairs. Formal application to the School is made in the autumn of the senior year, and final admission is contingent upon conferral of the A.B. degree and a satisfactory grade point average while in the joint program.

Graduate Program in Public Policy and Administration

Barnard College and the Graduate Program in Public Policy and Administration offer a joint degree program (the M.P.A. program) leading to the A.B. degree at the end of four years and the Master of Public Administration after one additional year.

Although application to the program is made in the junior year, it is advisable to consult Professor Demetrios Caraley, 402 Lehman, as early as the sophomore year to plan an appropriate undergraduate course of study. Admission to the joint program does not constitute automatic admission to the M.P.A. program. The student in the joint program applies for admission to the graduate program in the Autumn Term of her senior year. Final admission is conditional upon the applicant's receiving the A.B. degree from Barnard with an approximate grade point average of 3.5.

A Barnard student in the joint program must satisfy all basic, distribution, and major requirements for the A.B. degree at Barnard. Courses in the graduate program may be used to fulfill major requirements only with the written consent of the chairman of the department in which the student is majoring. During the junior and senior years she must complete at least 24 points of course work at the 4000 level or above, including the first-year required core courses specified in the Bulletin of the Graduate Program in Public Policy and Administration. An internship, usually during the summer between the fourth and fifth years, is also required. In the fifth year of the program a student completes at least 30 points including a workshop and policy specialization requirements.

Other Academic Opportunities

School of Law

Barnard College has the option of nominating, in conjunction with the Columbia University School of Law, two outstanding juniors each year to enter the Law School under the Accelerated Program in Interdisciplinary Legal Education (A.I.L.E.).

Each student must submit a record of 90 points, including all general requirements, 60 of which will have been completed at Barnard. Each must also demonstrate that she will be able to complete her major and the final 30 points at the Law School, 12 of which must be in the liberal arts and the remainder in appropriate law courses.

To be nominated, a student must have an outstanding academic record (3.6 average or above), and have taken the LSAT by March of her junior year.

Students interested in the program should consult with the Dean for Pre-Professional Students early in the junior year and with the Senior Class Dean to ensure fulfillment of graduation requirements. LSAT applications are available in the Office of the Dean of Studies; the test is usually offered in June, October, December and February or March.

School of Oral and Dental Surgery

A limited number of qualified students may wish to enter the School of Oral and Dental Surgery after three years of undergraduate work at Barnard. To be eligible for this program, before entering the Dental School, the student must have completed 90 points of academic work at Barnard and all of the prerequisite courses for the Dental School. To be eligible for the A.B. degree, she must have completed 120 points, 30 of which may be taken at the Dental School, and she must have completed all of the general and major requirements of Barnard College.

A student interested in this option should consult with the Dean for Pre-Professional Students in the sophomore year for early program planning. Before her admission to the Dental School she should consult with the Senior Class Dean to make certain that she will be eligible for the A.B. degree while attending the Dental School.

School of Engineering

Barnard College and the School of Engineering and Applied Science offer undergraduate programs in the professional branches of engineering and in the applied sciences under a cooperative program. In addition to the general admission requirements, course work in mathematics through trigonometry, physics, and chemistry is desirable for entering students interested in engineering or applied science.

The first three years of the five-year program leading to the degrees of Bachelor of Arts and Bachelor of Science are spent under the jurisdiction of Barnard College, and a few courses are taken in the Engineering School. During the junior year the student applies for admission to the School of Engineering and Applied Science, where the remaining two years of more specialized engineering study are taken. Completion of the basic, distribution, and major requirements is required for the Barnard A.B. degree. A maximum of 30 points may be credited for engineering courses. Students interested in the program are encouraged to consult the adviser for combined programs in the Office of the Dean of Studies to plan an appropriate schedule of courses.

It is also possible to follow a four-year program which leads only to the Bachelor of Science degree. Two years of pre-engineering subjects are taken at Barnard, after which the student applies for admission to the School of Engineering and Applied Science. The remaining two years of engineering study are completed there.

Details of specific entrance requirements are available from the Office of Admissions of the School of Engineering and Applied Science and from the Office of the Dean of Studies at Barnard. Further information about the engineering program and the advanced degrees may be obtained in the bulletin of the school.

CULTURAL EXCHANGE WITH THE UNIVERSITY OF ROME

According to the Agreement of Cultural Exchange between Barnard and the University of Rome, Barnard College and Columbia University faculty work in parallel or integrated courses with their colleagues at the University of Rome. Through these courses Barnard students enjoy the unique opportunity of a dialogue between their professors and the visiting guests as an integral part of their classroom work. A joint Executive Committee of Barnard College, Columbia University, and University of Rome faculty directs the Exchange which is administered by the Center for International Exchange.

Other Academic Opportunities

AUDITING

Student Auditing

Matriculated students may audit courses in special instances by arrangements with the instructors. Permission to audit a course is granted at the instructor's discretion. Courses audited do not appear on the student's program or transcript; they are **not** graded; and they may **not** be subsequently converted to credit courses.

Alumnae Auditing

Many Barnard courses are open to alumnae for auditing. No credit is given and no charge is made. The only requirement is that permission of the instructor must be obtained. Those interested in this program should contact the Alumnae Office and request a copy of the current catalogue and information about procedures.



IX. Registration

REGISTRATION PROCEDURES

Registration for New and Continuing Students

Instructions and materials for registration are enclosed in individual packets distributed in Altschul Hall to students on the days designated for registration.

Students are expected to register during the registration times published in the College Calendar, page 6. Permission to register may be refused to students who do not observe the deadline for registration. Those students who have permission to register late will be assessed additional fees, as posted at the Registrar's Office.

Bills for tuition and fees (see page 19) are mailed before the beginning of the semester, and payment must be received by the deadline published in the College Calendar, page 6. In addition, any outstanding debts to the College or University, including library fines, must be paid before the student may register.

The final stage of the registration process is program filing (see page 47), which must be completed by the published deadline (see College Calendar, page 6). If for some compelling reasons students must enroll in less than a full-time program, the written permission of one of the deans in the Dean of Studies Office is required.

Registration for Resumed Education Students

Resumed Education students are those Barnard students who have been away from the College for five years or more and are returning to complete the A.B. degree requirements and those Barnard graduates who are returning to the College to take additional course work. Resumed Education students are subject to regular registration procedures and deadlines and payment of late registration fees.

Registration for Columbia University Courses

Many courses offered in other divisions of the University are open to qualified Barnard students; those cross-listed in the Barnard Catalogue do not normally need special approval; all undergraduate courses listed in the Columbia College bulletin do not need special approval unless so indicated in the course description. Other courses **not** cross-listed in the Barnard Catalogue may require divisional or instructor's approval in addition to the approval of the student's academic adviser. Columbia University courses are entered on the Barnard program; specific instructions are enclosed in the registration packet. The student is expected to have reviewed the course description and prerequisites before consulting an adviser, to determine for herself whether she is eligible to enroll.

Certain Columbia courses are sectioned prior to registration. Barnard students wishing to register in such courses must take part in the sectioning procedure.

Only students enrolled in the Education Program are eligible to take the Teachers College methods courses cross-listed in the Catalogue. All Teachers College courses which are **not** cross-listed require approval of the Barnard Dean of Studies by submission of a petition form during the first week of the term, and also require payment of additional Teachers College fees.

Registration

STUDENT PROGRAMS

Program Filing

The list of courses for which the student is registered each semester is known as the student's **program**.

Each student is required to attend the appropriate program-planning meeting at the end of each semester (see College Calendar, page 6) and to consider seriously her selection of courses for the following semester.

During the program-planning period each freshman and first-semester sophomore files her tentative program for the following semester with the Registrar. Each senior, junior, and second-semester sophomore is expect to consult with her major adviser about her program for the following semester.

During the program-planning period, various departments post sign-up sheets for laboratory courses, sectioned courses, and limited-size courses. A student who wishes to enroll in such a course or courses must enter her name on these sheets to ensure a place for the following semester.

Between registration and the date for program filing a student is required to reach a *final* decision on the courses she will take for the term. The final program, signed by her academic adviser, is filed at the Office of the Registrar before the published deadline. There is no refund issued for courses dropped after the published deadline for program filing, and any part-time program filed after that date will be assessed full tuition. Note: the deadline for submission of programs is separate from, and somewhat later than, the registration deadline (see College Calendar, page 6). Programs filed late must be approved by each instructor and the Committee on Programs and Academic Standing, and will be assessed additional fees, which will be posted at the Registrar's Office. A student who neglects to file a program is subject to academic probation.

Adjustment of Fees and Refunds

For changing program of study. If a student changes her program and the tuition called for is lower than the amount she has already paid, she will be refunded the excess only if the alteration of her program is made by September 16 (last day of program filing) in the Autumn Term and by February 1 in the Spring Term. If the new program calls for higher tuition, the student is responsible for paying the additional charges promptly.

Schedule of Classes and Room Assignments

Class times and room numbers are published in the **Schedule of Classes and Room Assignments**, available during registration. Final information on changes in Barnard-taught courses (class times and rooms) is posted at the entrance to Milbank Hall. Disabled students needing wheelchair-accessible classrooms should provide this information to the Associate Registrar during program planning.

Courses with Limited Enrollment

Enrollment in certain courses is strictly limited and students are encouraged to indicate their intent to enroll in those courses well before registration by entering their names on "sign-up" sheets which are posted outside departmental offices and which list criteria for course enrollment.

Section Changes

Courses may not be added after the deadline for filing academic programs (see College Calendar, page 6). Up to that deadline, the student may add courses either on the program form, if she has not already submitted it, or by an Application to Add a Course, available at the Office of the Registrar. Adding a course requires the signatures on either the program or add form of the class adviser and the major adviser.

Registration

Dropping Courses

Courses may be dropped by submission of an Application to Drop a Course or Section, available at the Office of the Registrar. The form requires the signature of the class adviser and the major adviser, and must be returned to the Office of the Registrar before the deadline published in the College Calendar (see page 6.). Courses dropped by the deadline will not be recorded on the permanent transcript. If withdrawal from a course is approved after the deadline, the course will be recorded on the permanent transcript with the notation W (Withdrawal). No adjustment of fees is made for any course dropped after the deadline for program filing.

Attendance

Students are expected to attend classes regularly. Frequent or prolonged absences from classes may cause a student to forfeit the right to complete course work or to take final examinations.

A prolonged or serious illness is considered an excuse for absence only if the student files a statement signed by her physician with the Office of Health Services immediately upon her return to a regular attendance schedule.

Policy on Religious Holidays

It is the policy of Barnard College to respect its members' observances of their major religious holidays. Conflicts with such holidays will normally be avoided in the scheduling of required academic activities and essential services, including registration, deadlines that are part of the academic calendar, and final examinations.

In any instance of unforeseen or unavoidable scheduling conflict, student and instructor will work out suitable arrangements for satisfaction of academic requirements; in some instances, consultation with a dean or director may be appropriate. A listing of major religious holidays is distributed before the Autumn Term to all members of the faculty and administrative staff.

Withdrawal and Readmission

A student not subject to discipline for infraction of College rules may withdraw from the College during the semester by submitting a Notice of Intention to Withdraw form to the Office of the Dean of Studies with the signature of the parent or guardian before the final examination period. If the student withdraws during the semester without submitting the proper notification, the term's work is subject to a grade of UW. (For information on partial refund of tuition, see page 21.) A student who plans not to register for the following term should file an appropriate form in the Office of the Dean of Studies.

A student in good health who leaves with her record complete and who is in good standing may re-register within one year of the date of withdrawal without reapplying through the Office of Admissions. No readmission fee is charged a student who submits a written confirmation of her intention to return to the Office of the Dean of Studies by April 1 for the Autumn Term or November 1 for the Spring Term. After an absence of one year a student must file readmission forms through the Office of Admissions and pay readmission fees (see page 18).

Exceptions to College Regulations

Requests by students for exceptions to college regulations governing the award of academic credit and requirements for the degree may be addressed to the Faculty Committee on Programs and Academic Standing. Petition forms are available at the Office of the Registrar and should be returned there. Requests which bear the appropriate signatures of advisers and instructors normally receive consideration within two weeks of their submission.

X. Examinations

Language Placement Examinations

The foreign language requirement can be met by completing the required courses at Barnard (for individual languages see departmental curriculum statements), or by a College Entrance Examination Board (CEEB) score of 750 or above, or, for transfer students, by having completed acceptable qualifying language courses.

Transfer Students

A transfer student who has a CEEB score is placed according to that score alone, if she has had no previous college language courses. The determination is made according to the provisions of an established scale. A transfer student who has no CEEB score or previous college language courses, must, if she wishes to continue with a particular language, take a placement test. Transfer students who are not required to take an examination are notified of language placement along with the evaluation of their transfer credits.

Freshman Students

Freshman students are placed (or exempted) on the basis of their CEEB scores. Those with no scores who wish to continue languages studied in high school take placement examinations. The Freshman Program Director advises all new freshmen of their language requirements.

Summer School Language Courses

Students, other than incoming transfer or freshman students, who take summer language courses and wish exemption or placement in their continuing language studies must take a language placement examination, or secure departmental approval to receive degree credit and enter a higher level.

A student who does not wish to continue with a language in which she has been placed may begin the study of a new language.

Applications for Language Placement Examinations are available at the Office of the Registrar; the examination dates are published in the College Calendar, page 6. The examinations are evaluated and placement is made by the appropriate departments. Results are posted at the Office of the Registrar.

Departmental Placement Examinations

Students may obtain exemption from or placement in certain courses by means of departmental placement examinations, for example in the Mathematics and Physics departments. Information and applications for the examinations are available in departmental offices, and deadlines are particular to each department.

Make-Up Examinations During the Term

Instructors are not required to give make-up examinations to students absent from previously announced tests during the term. An instructor who is willing to give a make-up test may request a report of illness from the College physician or acceptable evidence of other extenuating circumstances.

Examinations

Final Examinations

There are no class meetings on the last class day before the final examination period in each term. This interval may be extended for any class, at the option of the instructor, to the full week prior to the examination period. The dates for final examinations, given at the end of each term, are published in the College Calendar, page 6. Exact times and room numbers for individual examinations are sent to each student and posted on the bulletin board at the Office of the Registrar two weeks before final examinations.

Barnard examinations are given under the Honor Code which states that a student should not ask for, give, or receive help in examinations, nor should she use papers or books in a manner not authorized by the instructor. She should not present work that is not entirely her own except in such a way as may be approved by the instructor. The Honor Code further implies that any student or member of the faculty who has first-hand knowledge of a violation of these rules has an obligation to report it to the Dean of Studies or Honor Board.

A student who wishes to leave the room before the end of the examination period will submit her blue books to the instructor. If a student becomes ill during the course of the examination, she must notify the instructor and go to the College Physician, Brooks Hall, Lower Level. If less than an hour has expired, a grade of DEF will be recorded on the transcript and she will take a deferred examination. If a student remains for more than one hour for a three-hour examination, she will be graded on the work she has completed.

Deferred Final Examinations

Deferred final examinations for Barnard courses, given in September and January (see College Calendar, page 6), are open only to those students who were absent from the regular examinations for reasons of illness or emergency. An instructor may decline to give a deferred examination to a student whose attendance has been unsatisfactory. Exceptions to these conditions can be made only by petition to the Committee on Programs and Academic Standing before the regular examination period begins.

Absence from final exams for reasons of health or other emergencies must be reported to the Office of the Dean of Studies in person or by telephone (280-2024) on the day of the examination. In case of an emergency, the Dean of Studies should be notified. For Columbia-taught courses, the instructor or the Columbia department must also be informed.

Examinations missed in December are to be taken the following January or, in cases of prolonged illness, in September of the same year. Those missed in May are to be taken in September of the same year. If a student absents herself without a compelling and valid excuse from a final or deferred examination, she will receive a grade of zero for that examination. Applications for deferred examinations are filed with the Office of the Registrar by designated dates (see College Calendar, page 6). A payment of a \$10 handling fee for each examination must accompany the application.

Arrangements for deferred examinations in other divisions of the University must be made by the student with the instructors, and should be completed during the term following registration for the course.

Examinations for Students with Disabilities

Individual arrangements can be made for disabled students unable to take examinations in the usual manner. Disabled students are normally expected to take their exams with the rest of the class, with disability-related modifications as needed. Students with disabilities who require nonstandard administration should consult with their instructors and the Dean for Disabled Students about reasonable accommodations. Students should obtain copies of the *Test Accommodations Form* in 7 Milbank and return them at the beginning of the semester.

SAT, GRE, and LSAT Examinations

Information and application forms for the Scholastic Aptitude Examination, the Graduate Record Examination, the Law School Admissions Test, and other specialized examinations are available in the Office of the Dean of Studies.

XI. Grading and Academic Honors

Grading System

Academic standing and eligibility for graduation are determined by both the number of courses completed and the grades achieved. The system used at Barnard is as follows:

A+, A, A-	Excellent
B+, B, B-	Good
C+, C	Satisfactory
C-, D	Unsatisfactory but passing
F	Failure
P	Passed without a specific grade on student's election of P/D/F option
P*	Passed in a course for which only a grade for P or F is allowed
I	Incomplete
X	Absence from final examination
NC	No credit
Y	For the first half of a two-semester course in which the grade for the second semester is the grade for the entire course
W	Approved withdrawal after "drop" deadline
UW	Withdrawal from course without official notification to Registrar

Pass-fail grades are recorded for all students in certain courses, e.g., in physical education. Pass-fail grades for individual students are subject to regulations described below.

Regulations that apply to grades of I (Incomplete) are outlined on page 52.

Grades of I or X that were recorded in 1980-81 or before will be changed to NC (no credit) if the missing work is not submitted and the portion of the course work that had been completed was passing; beginning 1981-82 the unsubmitted work has been calculated as zero in averaging the final grade. If the work completed was not passing, the grade will be changed to F.

In the computation of grade point averages, marks for courses are awarded on the following scale:

A+ = 4.3	B+ = 3.3	C+ = 2.3	D = 1
A = 4	B = 3	C = 2	F = 0
A- = 3.7	B- = 2.7	C- = 1.7	

In order to be recommended for the degree, a student must maintain a cumulative average of 2.0 (C) for 120 or more points completed with passing grades. At the end of each term all records are examined. Normally only those students with cumulative averages of 2.0 or above are permitted to remain in college. Students whose work falls below the cumulative average of 2.0 may be permitted to continue at Barnard only with the permission of the Committee on Programs and Academic Standing.

Courses in which the student receives the grade of D may not be counted toward the major requirement or the minor option. Required courses graded D that must be retaken for a higher grade to satisfy requirements for the major or minor will not receive degree credit when repeated.

Grading and Academic Honors

Grade Reports

The grade report for the Autumn Term is enclosed in the student's registration packet in January. At the end of the Spring Term, a cumulative grade report of all the student's work at Barnard is sent to the home address. The cumulative grade report is an unofficial transcript for which there is no charge. A student may request that her grade reports be sent to her parents or guardian by filing a permission card with the Registrar. Parents who have established their daughter's status as a dependent may receive transcripts of her grades without her consent by writing to the Dean of Studies. If the student wishes additional transcripts, a charge of \$2 per copy will apply (see Transcripts, page 53).

Pass/D/Fail Option

A student may request a course to be graded under the Pass/D/Fail option by submitting a Request for Pass/D/Fail form in duplicate to the Office of the Registrar before the deadline published in the College Calendar, page 6. The forms are available at the Office of the Registrar about two weeks before the deadline. **Under the Pass/D/Fail option the student is held responsible for fulfilling all the course requirements.** A passing letter grade of A, B, or C reported by the instructor is converted to P by the Office of the Registrar. A grade of D or F is not converted.

Some courses record Pass-Fail grades for all students enrolled, e.g., Biology BC 3598.

Of the 120 points required for the degree, a maximum of 21 points of course work may receive a grade of Pass, whether elected or mandated (e.g. English BC1202). The P/D/F option cannot be elected for Freshman English or any course designated to count toward the major or the minor.

No limitation is placed on the number of Pass grades that may be recorded in a single term, except those rules that apply to Dean's List, to eligibility for financial aid, and to the overall 21-point maximum.

Grades of P are not included in the grade point average. Grades of D or F, whether or not received under the Pass/D/Fail option, are computed. If the total number of points excluded from calculation in the grade point average exceeds 34, a sliding scale requiring higher qualifying averages is used to determine eligibility for general honors at graduation. (Like courses graded Pass, points credited for A. P., baccalaureates, some transfer work, and all summer courses are not calculated in the grade point average.)

The request for a course to be graded under the Pass/D/Fail option is **irreversible**. Subsequent change to a letter grade will not be allowed, and the option may not be elected retroactively.

Incompletes

A student may for compelling reasons arrange with her instructor to take a grade of I (Incomplete) by means of written approval on forms available at the Office of the Registrar. The deadline for filing the Application for Incomplete is the last day of the reading period. However, in a course without a final examination, the deadline is the day before the final paper is due if that date precedes the last day of the reading period.

There are two Incomplete options. The "early Incomplete" requires submission of unfinished work to the Registrar soon after the end of the term by the date designated in the College Calendar and results in the removal of the "I" notation from the transcript. The second option extends the deadline to the first day of classes for the next Autumn Term, but the "I" notation remains on the permanent transcript and is joined by the final letter grade. The full regulations that apply to Incompletes are listed on the Application for Incomplete form available at the Office of the Registrar. Students must have the permission of their instructors to take grades of Incomplete, and are required to use the form, which is a written guarantee of the terms set forth in it by the student and the instructor.

Eligibility for Intercollegiate Athletics

Any student at Barnard College, Columbia College, or in the Columbia School of Engineering and Applied Science who is pursuing the undergraduate program or a

Grading and Academic Honors

combined program toward a first degree is eligible for intercollegiate athletics, provided that certain conditions are met. To be eligible for athletic activities, the student must

- be a candidate for a bachelor's degree;
- be registered for at least 12 points of credit per semester;
- have passed by the beginning of the academic year 24 points if in the second year, 52 points if in the third year, or 86 points if in the fourth year;
- have attended the University for not more than eight terms;
- not have completed the requirements for a bachelor's degree;

An eligibility blank must be filed with the Director of Athletics. The completed blank is sent to the Office of the Registrar where eligibility is determined by examining the student's record. Questions about athletic eligibility should be referred to the Dean of Studies, 105 Milbank.

Dean's List

The Dean's List, which includes the names of students who deserve special mention for superior scholarship, is compiled at the end of each academic year. To be eligible, a student must be enrolled at Barnard for both terms. Her grade point average will be based on all her letter grades, **a minimum of 12 letter-graded points in each term**, exclusive of those courses receiving grades of P.

Transcripts

Transcripts are ordered by the student or alumna by written request to the transcript secretary in the Office of the Registrar. An official Transcript Request Form is available, but the request may also be made by letter, provided that the letter includes the following: student's name (including maiden and married names) and Social Security number, dates of attendance at Barnard, purpose of the transcript, number of copies desired, specifications as to whether the transcript should or should not be delayed until the latest semester's grades have been entered, name(s) and address(es) to which the transcript is to be sent, the student's full signature, and a \$2 check or money order for each transcript ordered. Official copies of transcripts (those bearing the seal of the College) can be sent only to academic institutions, business organizations, and government offices. Unofficial copies of transcripts may be sent to the student. All copies of transcripts, official and unofficial, are sent only at the written request of the student, and are subject to the \$2 fee. There is no charge, however, for a transcript sent to a division of the University.

Honors

The Faculty awards honors to students who complete work for the degree with distinction (*cum laude*), with high distinction (*magna cum laude*), and with highest distinction (*summa cum laude*). Students whose records include study at other institutions will be eligible for honors if both the overall and the Barnard grade point averages meet this requirement. Grades for summer work are excluded from the grade-point average. If the total number of points for summer credit, for courses graded P or P*, and for transfer grades unconvertible to Barnard equivalents exceeds 34 of the 120 points for the degree, the qualifying averages are computed on a sliding scale. Departmental honors are awarded to a percentage of eligible graduates nominated by their departments for distinguished work in their major fields. The final selection is made by the Committee on Honors.

Phi Beta Kappa

The Barnard section of the Columbia University chapter of Phi Beta Kappa was founded in 1901. Election to the national honor society is a recognition of scholarship, and Barnard students of exceptionally high standing are eligible. Under the 35-course plan, eligibility for election as a senior will require 30 completed courses. Under the point system, junior election will require a minimum of 86 completed points and senior election, 102. Questions concerning Phi Beta Kappa should be referred to the Office of the Dean of Studies.

XII. Courses of Instruction

The Curriculum

The Barnard curriculum consists of thirty-eight departments and programs. At present, twenty-seven departments and eleven interdisciplinary programs offer majors, and students may also elect minors if they wish. All academic programs listed are planned for 1988-89; their listing in this catalogue is not a guarantee of their availability in subsequent years, and the College may revise its degree requirements from time to time.

Classes

The usual schedule consists of 15 points each semester, but depending on a student's interests or departmental requirements, additional courses may be added. However, an additional fee is charged per point for a program exceeding 18 points (see page 19 for the fee schedule). Classes vary in size. Those in which student participation is important are small. Introductory courses and classes taught primarily by the lecture method are often divided into smaller groups for conference and discussion. Laboratory work in the sciences is conducted with modern equipment, and computer facilities are available at Barnard.

Courses of Instruction

Course descriptions will be found in the following pages. Room assignments and all other registration information are published in a separate bulletin and distributed during registration.

Autumn Term courses are followed by an x; Spring Term courses are followed by a y.

Indivisible **Barnard** courses that run throughout the year are marked with a hyphen between the numerals (e.g., Spanish V1101-V1102). No credit is given for work in an indivisible course dropped at midyear without the written consent of the instructor and department chairman and the approval of the Committee on Programs and Academic Standing. However, the first semester of elementary language, whether taken at Barnard or elsewhere, does not receive degree credit unless the second semester is completed.

Divisible Barnard courses, which run throughout the year, are marked with a comma between the numerals (e.g., Environmental Science BC 1001x, BC 1002y). The first half of such courses may be taken separately. Admission to the second half without completion of the first half is granted only with written permission of the instructor. Certain courses are offered in both Autumn and Spring terms (Economics BC 1001x, BC 1001y) and may be taken in either term.

The following alphabetical prefixes designate the division of the university for whose students the course is primarily offered or indicate joint courses. Hyphens and commas between course numbers for other than BC courses do not necessarily have the connotations described above for Barnard courses.

- BC—Barnard College
- C—Columbia College
- F—School of General Studies
- G—Graduate School of Arts and Sciences
- R—School of the Arts
- V—Joint undergraduate course (Barnard with Columbia College and/or the School of General Studies)
- W—Other inter-faculty course

The level of the course is generally as follows:

1000-3999 Undergraduate

4000-4999 Advanced undergraduate and first-year graduate

5000-8999 Graduate, normally not open to undergraduates

American Studies

Office: 410 Lehman Hall

Telephone: 280-2159, 4385

The program is supervised by the Committee on American Studies:

Professor of History

Robert A. McCaughey (Dean of the Faculty)

Professor of Art History

Barbara Novak

Associate Professor of History

Rosalind N. Rosenberg (Chair, Department of History)

Assistant Professor of Anthropology

Nan Rothschild

Assistant Professor of History

Barbara L. Tischler (Director)

Barnard's American Studies Program offers students a multi-disciplinary approach to the study of American culture that begins with a foundation of historical study and allows the student to design a major, within the Program's requirements and in consultation with her adviser, that is consistent with her interests. Faculty members who teach American Studies courses are specialists in American cultural, intellectual, social, and political history; American women's history; American art history; and American literature. Students are encouraged to utilize the resources of Columbia University and New York City, specifically the Center for American Culture Studies, Columbia's Oral History Program, various museums, and the New-York Historical Society, in their course work and research.

REQUIREMENTS FOR THE MAJOR

The American Studies major comprises twelve courses, which must represent the following distribution:

- I. 2 semesters of the American History survey course, and History BC 1051 and BC 1052. This requirement may also be met with equivalent courses or with a score of 4 (for one semester) or 5 (for 2 semesters) on the Advanced Placement examination. Majors are urged to complete this requirement by the end of their sophomore year.
- II. BC3401, Cultural Approaches to the American Past. This is the Junior American Studies colloquium and is offered only in the Autumn Term.
- III. 1 course that is specifically concerned with methodological or theoretical issues bearing on the study of culture and society. The following courses are recommended; others may be substituted with the permission of the program director:

Anthropology V1002	<i>Introduction to Culture</i>
Dance BC 2566	<i>History of Dance</i>
English BC3183	<i>Modern Literature and the Allied Arts</i>
English-Women's Studies BC 3144	<i>Minority Women Writers in the United States</i>
History BC 3061	<i>American Culture to 1920</i>
History BC 3062	<i>American Culture Since 1920</i>
History BC 3451	<i>Law and American Society</i>
History BC 3455	<i>Reckoning With the Past: History, Historians, and the Computer</i>
History BC 3459	<i>Education in American History</i>

American Studies

Library Science K 8005
 Philosophy V 3801
 Philosophy V 3803
 Religion V 3502, 3503
 Sociology V 1005x

Oral History
Aesthetics
The Concept of Beauty
The History of Religion in America
Medical Care in Twentieth Century America

IV. 1 seminar that, by focusing on a particular historical period, group within American society, or cultural movement, utilizes a cultural approach to the study of the United States. The following seminars are recommended; others may be substituted with the permission of the program director:

Anthropology BC 3142
 Section III

Art History BC 3679

English BC 3140 Section II
 History BC 3084

History BC 3450
 History BC 3456
 History BC 3479
 Religion V 3804 Section XIX

The Study of Cities

Modern Art: Modernism and the Mass Media, 1930-present

Explorations of Black Literature
American Intellectual History from the Civil War to the Present

History of Childhood in America
Seminar in American Popular Culture
America in the 1960s

Afro-American Religious History

V. 1 course that provides a comparative perspective on American culture. The following courses are recommended; others may be substituted with the permission of the program director.

Art History BC 3971

English BC 3122
 English BC 3185
 English BC 3187

English BC 3189
 Oriental Humanities V 3200

Religion V 3780

Theories of Photography in the Twentieth Century

American and British Dialects
Modern British and American Poetry
Modern American and European Writers

Post-Modern Literature
Oriental Encounters: The American Experience

Religion in Racially Stratified Societies

VI. 2 courses in American literature and/or American art history.

VII. 2 courses in the social sciences, only one of which may be in History.

VIII. 2 semesters of the Senior Seminar, BC 3703 and BC 3704.

REQUIREMENTS FOR THE MINOR

A student who minors in American Studies must take a program consisting of 5 courses. The courses must represent the following distribution:

1 semester of the American history survey course, either BC 1051, BC 1052, or the equivalent

BC 3401, Cultural Approaches to the American Past

1 seminar that, by focusing on a particular historical period, group within American society, or cultural movement, utilizes a cultural approach to the study of the United States

2 semesters of American literature and/or art history

American Studies

COURSES OF INSTRUCTION

American Studies-History
ASH BC 3401x. Cultural Approaches to the American Past.
A survey of theoretical approaches to cultural history: myths and symbols in American literature and history; studies of ethnicity, class, race, and gender; multidisciplinary studies; and investigations of popular, mass, folk, and material culture.—B. Tischler.
4 points. W 11:00-12:50.

AMS BC 3703x, AMS BC 3704y.
Senior Seminar.
Individual research on diverse aspects of American civilization, in consultation with instructors, and the preparation of the senior essay.— Staff.
Enrollment limited to senior majors.
4 points.

AMS BC 3999x, AMS BC 3999y.
Independent Research.
Staff.
3 or 4 points. Hours to be arranged.

AMERICAN STUDIES COURSES IN OTHER DEPARTMENTS:

Students should consult appropriate departmental listings for complete information about these courses:

Anthropology	
V 1002	<i>Introduction to Culture</i>
V 1006	<i>Introduction to Archaeology</i>
BC 3142 Section III	<i>The Study of Cities</i>
BC 3868	<i>Ethnographic Research in New York City</i>
W 4354	<i>Archaeology of New York City</i>
Art History	
BC 3679	<i>Modern Art: Modernism and the Mass Media, 1930-present</i>
BC 3971	<i>Theories of Photography in the Twentieth Century</i>
W 4624	<i>American Painting, 1760-1900</i>
Dance	
BC 2566	<i>History of Dance</i>
Economics	
BC 2013	<i>Economic History of the United States</i>
BC 2014	<i>Topics in American Economic History</i>
BC 3044	<i>U.S. Industrial Policy</i>
English	
BC 3122	<i>American and British Dialects</i>
BC 3140 Section II	<i>Explorations of Black Literature</i>
BC 3144	<i>Minority Women Writers in the United States</i>
BC 3179	<i>American Literature Before 1865</i>
BC 3180	<i>American Literature Since 1865</i>
BC 3181	<i>American Fiction</i>
BC 3183	<i>Modern Literature and the Allied Arts</i>
BC 3185	<i>Modern British and American Poetry</i>
BC 3187	<i>Modern American and European Writers</i>
BC 3189	<i>Post-Modern Literature</i>
BC 3193	<i>Critical Writing</i>
BC 3998 Section VII	<i>Senior Seminar: American Literature (with instructor's permission)</i>
History	
BC 1051, 1052	<i>Survey of American Civilization</i>
BC 3061, 3062	<i>American Cultural History</i>
BC 3066	<i>America in the Gilded Age</i>
BC 3067	<i>America Since 1956</i>
BC 3082	<i>American Women in the Twentieth Century</i>
BC 3084	<i>American Intellectual History from the Civil War to the Present</i>

American Studies

BC 3450	<i>History of Childhood in America</i>
BC 3451	<i>Law and American Society</i>
BC 3455	<i>Reckoning with the Past</i>
BC 3456	<i>Seminar in American Popular Culture</i>
BC 3459	<i>Education in American History</i>
BC 3479	<i>America in the 1960s</i>
W 3879	<i>Fordism: Mass Production and Mass Society in the 1920s</i>
W 3932-3933	<i>Segregation and Racism: An American Dilemma</i>
V 3994, 3995	<i>New York Area Undergraduate Research Program</i>
Library Science	
K 8005	<i>Oral History</i>
Music	
V 1010	<i>Popular Music in North America</i>
V1016	<i>Introduction to Jazz</i>
Oriental Humanities	
V 3200	<i>Oriental Encounters: The American Experience</i>
Philosophy	
V 3801	<i>Aesthetics</i>
V 3803	<i>The Concept of Beauty</i>
Political Science	
BC 3001	<i>Dynamics of American Politics</i>
V 3313	<i>American Urban Politics</i>
V 3316	<i>The American Presidency</i>
BC 3322	<i>The American Congress</i>
BC 3325	<i>The Judicial Process</i>
BC 3326	<i>Colloquium on Civil Rights and Liberties</i>
BC 3327	<i>Colloquium on the Content of American Politics</i>
V 3328	<i>Women and American Politics</i>
Religion	
V 3502, 3503	<i>The History of Religion in America</i>
V 3760	<i>American Indian Religions</i>
V 3780	<i>Religion in Racially Stratified Societies</i>
Sociology	
V 1005	<i>Medical Care in Twentieth Century America</i>
V 3013	<i>Women, Health and Health Care</i>
V 3101	<i>Contemporary Social Theory</i>
W 3210	<i>Comparative Sociology of Race and Ethnicity</i>
V 3215	<i>American Society and Politics</i>
V 3265	<i>Minorities and Ethnic Groups in American Life</i>
V 3303	<i>Female and Male: A Sociological Perspective</i>
Women's Studies	
BC 3111, 3113	<i>Major Texts of the Feminist Tradition, I and II</i>
BC 3112	<i>Colloquium in Women's Studies</i>
BC 3117	<i>Women and Film</i>

Ancient Studies

Office: 215 Milbank Hall

Telephone: 280-4389, 2852

This program is supervised by the Committee on Ancient Studies:

Assistant Professor of Art History (Columbia)

Beth Cohen (Representative for General Studies)

Assistant Professor of Classics (Columbia)

Darice Birge (Representative for Columbia)

Associate Professor of Classics

Lydia Lenaghan (Representative for Barnard)

Associate Professor of Classics

Helene P. Foley (Representative for Barnard)

Professor of History (Columbia)

William V. Harris

Assistant Professor of Religion

Holland Hendrix

Ancient Studies is designed to allow the student to explore various aspects of the ancient Mediterranean and Mesopotamian cultures while concentrating on one of these major civilizations. By studying these cultures in several academic disciplines the student will acquire a general knowledge and a context for her area of specialization. At Barnard and in the University a very large number of courses pertaining to antiquity is offered each year, and the program prepares an annual list to aid students in making their selections. This list may be obtained from the Representative for Barnard.

REQUIREMENTS FOR THE MAJOR

Each student, after consultation with the Representative for Barnard, chooses an adviser whose field is closely related to her own and with whom she will do her senior reading. The programs of all the students are reviewed by the Ancient Studies Committee, in order to maintain control and a sense of collective enterprise.

A total of 36 points are required in the major, including at least 4 courses in one geographical area or period;

courses in at least three departments (to ensure proper interdisciplinary training and experience);

the elementary sequence of a relevant ancient language;

the appropriate history course, and

at least the first semester of Ancient Studies V 3998, V 3999.

In some cases, a senior seminar in one of the departments may be substituted for Ancient Studies V 3998, V 3999. Ancient language courses may be used toward the major requirement; however, where a second ancient language is offered, one second-year sequence must be offered to gain credit for the first year.

REQUIREMENTS FOR THE MINOR

No minor is offered in Ancient Studies.

Ancient Studies

COURSES OF INSTRUCTION

ANC V 3997x, ANC V 3997y.

Directed Readings in Ancient Studies.

A program of readings in some aspect of Ancient Studies, supervised by an appropriate faculty member chosen from the departments offering Ancient Studies courses. Testing by a series of essays, one long paper, or oral or written examination(s).—Staff.

Permission of the departmental representative required.

3 points. Hours to be arranged.

ANC V 3998x, ANC V 3999y.

Directed Research in Ancient Studies.

A program of research in Ancient Studies. Research paper required. For 3999y, the topic

must be submitted to the departmental representative and the appropriate adviser decided upon by November 15 of the semester preceding that in which the student will be enrolled in the course. For 3998x, the corresponding deadline will be April 1 of the semester preceding that in which the student will be enrolled in the course. The student and the departmental representative will request supervision of the research paper from an appropriate faculty member in a department offering Ancient Studies courses.—Staff.

Permission of the departmental representative required.

3 points. Hours to be arranged.

A list of other relevant courses of instruction offered in 1988-89 may be obtained from the Representative for Barnard.



Anthropology

Office: 411 Milbank Hall

Telephone: 280-4314, 5417

Professors

Morton Klass (Chairman), Abraham Rosman, Paula G. Rubel, Joan Vincent

Assistant Professor

Nan A. Rothschild

Other officers of the University offering courses listed below:

Professors

Alexander Alland, Jr., Myron Cohen, Ralph Holloway, Robert Murphy, Harvey Pitkin, Elliott P. Skinner

Associate Professors

Ross Hassig, Don J. Melnick, Katherine Newman

Assistant Professors

Terence D'Altroy, Theodore Bestor, Elaine Combs-Schilling, Libbet Crandon, Anne Galin

Anthropology is the study of the biological and cultural development of the human species, and of the variety of human societies and their cultures. The student majoring in this field will acquire an understanding of humans and their ways that is not bound by her own time and culture. In doing so, she will find herself drawing upon the literature of such diverse disciplines as genetics, archaeology, ethnography, linguistics, and the social sciences. Students with a degree in anthropology may undertake graduate and professional study in anthropology; they may also enter upon careers in other fields, such as development, education, government, journalism, law, labor organization, medicine, or social work administration, where the value of a training in anthropology is becoming increasingly recognized. The practical and applied dimensions of anthropology have increased significantly in recent years, and the profession attempts to serve many non-academic needs both in American society and in international organizations.

Several major museums and libraries in New York City offer exceptional opportunities for research. Various summer schools provide opportunities for research in archaeology and ethnography, and under certain circumstances such work may be credited toward the Barnard degree. Students interested in cultural anthropology are encouraged, whenever possible, to conduct research in the New York area, or, during their summer vacations, in other localities.

All courses, except those limited to majors, satisfy the College's distribution requirements.

REQUIREMENTS FOR THE MAJOR

Every major is expected to have a general knowledge of all the fields of anthropology and of their interrelationship. The student's program should be designed in consultation with her adviser as soon as possible after the declaration of the major. Regular and frequent meetings with the adviser are encouraged.

Ten courses are required for the major, including:

- ANT V 1001 *Introduction to Human Origins;*
- ANT V 1002 *Introduction to Culture;*
- ANT V 3011 *Social Organization;*
- ANT V 3041 *History of Anthropological Theory;*

Anthropology

2 colloquia; and 4 other Anthropology courses, one of which will be an Area course (e.g., Peoples of the Middle East, Peoples of Europe, Peoples of Africa, Peoples of Southeast Asia). The requirements of 2 colloquia and an Area course may be met by either undergraduate or graduate courses.

Students majoring in Anthropology are required to submit a substantial research paper or essay. Such a paper may have its origin in a colloquium (or in another course acceptable to the department), and be completed in ANT BC 3871x-ANT BC 3872y or ANT BC 3999x, 3999y; or it may be based on papers submitted for two colloquia, which are to be presented to the department, along with introductory and culminating statements that make of them an entity; or it may be the result of a year's independent research in BC 3871x-BC 3872y.

REQUIREMENTS FOR THE MINOR

The minor consists of 5 courses:

ANT V 1001 or ANT V 1002;
ANT V 3041;
one area course; and two other courses.

The department also cooperates with related programs such as Foreign Area Studies, Urban Studies, and Women's Studies, and with other departments offering, as an option to their majors, a four-course cluster in Anthropology (e.g. Architecture). Arrangements for combined, double, joint, and special majors are made in consultation with the chairman.

Premedical students who wish to minor in anthropology should seek the advice and approval of the department chairman.

COURSES OF INSTRUCTION

INTRODUCTORY COURSES

ANT V 1001x, ANT V 1001y. Introduction to Human Origins.

Human biological and cultural evolution, as studied by physical anthropologists and archaeologists.

3 points.

x: Section I Tu Th 10:35-11:50. Instructor to be announced.

Section II Tu Th 2:40-3:55. N. Rothschild.

Discussion hours to be arranged.

y: Tu Th 6:10-7:25. Instructor to be announced.

Discussion hours to be arranged. S

ANT V 1002x, ANT V 1002y. Introduction to Culture.

Comparative and functional analysis of culture; habitat, technology, and economy, social and political relations; ideology—magic, religion, and science; art, music, and literature; life cycles and personality.

3 points.

x: Section I M W 1:10-2:25. R. Murphy.

Section II Tu Th 1:10-2:25. A. Rosman.

Discussion hours to be arranged.

y: Section I Tu Th 1:10-2:25. P. Rubel.

Section II Tu Th 2:40-3:55. M. Klass.

Discussion hours to be arranged. S

Linguistics LIN V 1101x, LIN V 1101y.

Introduction to Linguistics.

See Linguistics listing.

ANT V 1006x. Introduction to Archaeology.

The history, goals, theoretical frameworks, research designs, and techniques and methods for conducting archaeological research. The relationship of archaeology to anthropology, art history, and classics.—T. D'Altroy.

3 points. Tu Th 9:10-10:25. S

ANT V 1010x. The Human Species: Its Place in Nature.

Designed to acquaint students with a variety of scientific disciplines through the investigation of human evolution. Specifically, Darwin's Theory of Evolution; Mendel's principles of inheritance; major patterns of organic evolution; primate behavior, ecology, and evolution; and the fossil remains and trends in human evolution.—D. Melnick.

3 points. M W 11:00-12:15. S

ANT V 3201y. Introductory Survey to Biological Anthropology.

Human species in biological and evolutionary perspective with particular emphasis on the

Anthropology

behavioral and morphological aspects of our evolution. Topics to be covered include evolutionary theory and basic population genetics, non-human primate behavior, fossil evidence for human evolution, human variation, and interactions of biology and culture.—R. Holloway.
3 points. Tu Th 4:10-5:25. S

INTERMEDIATE COURSES

ANT V 3002y. Political Anthropology.
The development and comparative study of political structure and government in non-western societies.
Not offered in 1988-89. S
3 points.

ANT V 3005x. Peoples of Africa.
Survey of African cultures, with intensive analysis of selected peoples.
Not offered in 1988-89. S
3 points.

ANT V 3006y. Peoples of Southeast Asia.
Selective survey of traditional and changing Southeast Asian societies; emphasis on cultural, social, and ecological dimensions of tribal and peasant life.
Not offered in 1988-89. S
3 points.

ANT V 3007y. Peoples of Europe.
Intensive analysis of selected ethnographic studies reflecting cultural variation and change in European societies.—J. Vincent.
3 points. Tu Th 2:40-3:55. S

ANT V 3009y. Peoples of the Middle East.
An introduction to peoples and cultures of the Middle East and North Africa, with an emphasis on Arabs and Islam. Focus on the role of patrilineality, Arabic, commerce, and Islam in the construction of Muslim societies.—E. Combs-Schilling.
3 points. M W 5:40-6:55. S

ANT V 3010y. Native Peoples of Lowland South America.
Introduction to the peoples and cultures of native South America, including pre-history, ecology, social relations, belief systems, effects of the Spanish conquest, and the impact of modern change.—R. Murphy.
Not offered in 1988-89. S
3 points.

ANT V 3011y. Social Organization.
Institutions and organization of social life, particularly in non-literate societies; kinship and locality in the structuring of society.—A. Rosman.

Prerequisite: An introductory anthropology course.
3 points. M W 1:10-2:25. S

ANT V 3014y. Peoples of East Asia.
Introduction to the contemporary societies of China, Japan, and Korea, with special reference to the process of social change; emphasis on the interconnections between local communities and the total national societies.—T. Bestor.
Not offered in 1988-89. S
3 points.

ANT V 3016x. Peoples of the Pacific.
Comparative analysis of the ethnographic setting of Polynesian, Micronesian, and Melanesian populations; emphasis on theoretical contributions achieved and current anthropological problems being considered by researchers in the area.
Not offered in 1988-89. S
3 points.

ANT V 3017x. Caribbean Societies in the Global System.
From Columbus to Castro, the societies of the Caribbean as they have been influenced by powerful socio-cultural forces emanating from the global arena. Characteristics of these societies are analyzed from the perspective of theories of pluralism, dependency, and globalism.—E. Skinner.
3 points. M W 11:00-12:15. S

ANT V 3018x. The Development of Urbanism: An Archaeological Perspective.
Development and maintenance of prehistoric urban societies, drawing upon examples from both the New and Old Worlds; relationships between developmental processes, environmental exploitation, urban-rural interactions, and the internal dynamics and structure of the city itself.
Not offered in 1988-89. S
3 points.

ANT V 3020y. Men's and Women's Speech.
Cross-cultural and cross-linguistic investigation of differences among men's and women's speech patterns as these are exemplified in literature, ethnographic texts, and actual utterances by speakers in various social settings; study of differences on the phonological, lexical, syntactic, and discourse levels; relation between cultural and linguistic patterns; variation across speakers and in time.
Prerequisite: Course V 1001 or V 1002.
Not offered in 1988-89. S
3 points.

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ANT V 3021x. Sex Roles in Cross-Cultural Perspective.

Consideration of cultural expectations about male and female behavior in non-Western and Western societies. Differences in the social, economic, religious, and political behavior of men and women in a variety of cultures. Belief about sex and the sexes as well as the presence or absence of sex antagonisms. *Not offered in 1988-89.*

3 points.

S

ANT V 3024y. Changing Africa.

Major forces at work in contemporary Africa, and examination of changes that are taking place in the economic, social, political, educational, and artistic institutions of the emerging nation-states of that continent.

Not offered in 1988-89.

3 points.

S

ANT V 3025y. Law, Culture, and Society.

Survey of law and order systems in Western and non-Western societies. Examination of the kinds of social control problems that societies of different levels of complexity confront and the solutions that those societies forward. Forms of conflict behavior, methods of dispute settlement, and substantive law content.—J. Vincent.

3 points. Tu Th 10:25-11:50.

S

ANT V 3027y. Culture and the Individual.

Development of personality in various cultural contexts: child-rearing and socialization; the role of personality theories in analyzing social systems and situations of culture change. *Not offered in 1988-89.*

3 points.

S

ANT V 3030y. Japanese Society and Culture.

Sociocultural factors influencing Japan's emergence as a highly urbanized society and examination of anthropological approaches to the study of complex societies.—T. Bestor.

3 points. Tu Th 4:10-5:25.

S

ANT V 3033y. Sociolinguistics.

Speech considered as a social activity; the speech community; socially motivated linguistic change; ethnography of speaking; regional and social dialects; sex linked speech; the strategic use of language in varying speech events; analysis of natural discourse.—A. Galin.

3 points. M W 5:40-6:55.

S

ANT V 3034x. Ethnolinguistics.

Linguistics categories and their relation to culture; systems of folk-classification and their analysis; linguistic representations of time, space and other systems of orientation; analysis of myths, stories, and other ethnographic texts; relationships between language and thinking.—A. Galin.

3 points. M W 5:40-6:55.

S

ANT V 3036x. Peasant Societies.

Introduction to pre-industrial agrarian social systems; patterns of community organization and the relationship between the community and the state.

Not offered in 1988-89.

3 points.

S

ANT V 3037y. Societies in Transition.

Analysis of the changes that have taken place in rural and urban societies since the nineteenth century with emphasis on cultural and institutional relations between localities, regions and states. Ethnographies from Europe, America and the Third World.—E. Skinner.

3 points. M W 1:10-2:25

S

ANT V 3038x. Ethnicity and Race.

Analysis and comparison of ethnic and race relations in the context of social change and historical transformation, with particular reference to the United States, Europe, Africa and Asia.

3 points. Tu Th 2:40-3:55.

S

Anthropology-Women's Studies

ANW V 3039y. Women in Third World Development.

Comparison of women's social and economic roles in both traditional and modernizing societies. Women's roles in the family, community and class structure will be discussed through a detailed examination of a series of ethnographies.—E. Crandon.

Prerequisite: An introductory Anthropology or Women's Studies course or permission of the instructor.

3 points. Tu Th 10:35-11:50.

S

ANT V 3041x.

History of Anthropological Theory.

Intellectual developments contributing to the formalization of anthropology as a discipline. The works of Montesquieu, Comte, Maine, Durkheim, and Marx, along with the theoretical writings of such anthropologists as Tylor, Morgan, Boas, Malinowski, and Radcliffe-Browne.—J. Vincent.

3 points. Tu Th 10:35-11:50.

S

ANT V 3042x. The Anthropology of Religion.

Ideological systems of simple or preindustrial cultures; relations between religion and other aspects of culture.

Not offered in 1988-89.

3 points.

S

ANT V 3044y. Symbolic Anthropology.

The ordering of experience through symbols in various cultures. The symbolic significance of natural anomalies, twins, the body, space, time, inversions, jokes and riddles examined through selected readings from Durkheim, van Gennep, Lévi-Strauss, Mary Douglas,

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Victor Turner, and others.—E. Combs-Schilling.
Not offered in 1988-89.
3 points.

ANT V 3100x. Anthropology of Urban Life.
Evolution of cities: a cross-cultural view of kinds of urban formations; examinations within an anthropological context of various aspects of urban life.—T. Bestor.
3 points. Tu Th 4:10-5:25. S

ANT V 3105x. Cities and Crime: Anthropological Perspectives on Urban Life.
Examines crime and deviance as a property of urban life drawing on anthropological studies of cities in North America, Asia, Africa, Europe and Latin America.—T. Bestor.
Not offered in 1988-89.
3 points.

ANT V 3115x. The Anthropology of Central America.
Historical and ethnographic perspective on the countries of Central America. Exploration of why they constitute, despite their diversity, a "culture area;" and why they are such concern in contemporary American foreign policy. Topics to be covered include: ethnicity and class, dictatorship and democracy, capitalism and socialism, religion, land reform—as well as the social construction of ideologies.—L. Crandon.
3 points. Tu 6:10-8:00. S

ANT V 3128y. Microbes, Magic, and Medicine.
Examination of social and cultural factors as they relate to problems of health, illness, and medicine in the United States and in other societies.—L. Crandon.
Not offered in 1988-89.
3 points. S

ANT V 3203y. Primate Behavior.
Introduction to the study of primates, emphasizing social behavioral patterns as adaptation within ecological constraints; primate taxonomy, fossil record, social behavior, uses and abuses of primate studies for understanding human evolution and behavior.—D. Melnick.
Prerequisite: Course V 3201 or permission of the instructor.
Not offered in 1988-89.
3 points. S

ANT W 3204y. Dynamics of Human Evolution.
Seminar focusing on recent advances in the study of human evolution. Topics include: recent fossil discoveries, changing views of human evolution, early hominid social behavior, evolutionary theory, and sociobiology.—D. Melnick.
Prerequisite: V 3201 or the permission of the instructor.
4 points. M 2:10-4:00. S

ANT W 4111x. Latin American Communities.

The kinds and distribution of small communities in Latin America, including peasant villages, haciendas and plantations, and towns. Their relation to the larger society as well as their internal workings.—R. Hassig.
Not offered in 1988-89.
3 points. S

ANT W 4150y. Ethnology of Native Americans.

Patterns of aboriginal culture north of Mexico. Native American history and culture change since European contact. United States administration of Native American affairs and the Native American minority today.—P. Rubel.
Not offered in 1988-89.
3 points. S

ANT W 4187x. South Asian Society and Culture.

An examination of the peoples, institutions, and problems of contemporary South Asia. Among the topics to be covered are: village ecology and economy, community structure, family and kinship, the caste system, village-level religion, and cultural change.—M. Klass.
Not offered in 1988-89.
3 points. S

ANT W 4236x. Ecological Studies in Anthropology.

The use of ecological principles and data in analysis of non-Western societies and the interpretation of culture change. Analyses aimed at understanding adaptation of human societies to their environment.—Instructor to be announced.
3 points. Th 6:10-8:00 S

ANT W 4346x. Laboratory Techniques in Archaeology.

Training in general archaeological methods. Data recording techniques, preparation of reports, illustrations, etc.
Not offered in 1988-89.
3 points.

ANT W 4347y. Economic Anthropology.

Approaches to the study of resource allocation; production, consumption, and distribution in tribal and peasant societies. Contemporary theoretical issues and selected ethnographic accounts.
Not offered in 1988-89.
3 points. S

ANT W 4350y. Cultural Resource Management.

Discussion of laws and regulations concerning the preservation of national archaeological resources and the procedures of cultural resource management. Contribution that

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public archaeology makes to research in the discipline.—N. Rothschild.

Not offered in 1988-89.

3 points.

S

ANT W 4352x. Museology.

Methods and procedures of artifact conservation, cataloguing and display. Use of collections for research purposes.—N. Rothschild.

Not offered in 1988-89.

3 points.

S

ANT W 4354y. Archaeology of New York City.

The archaeology of Greater New York City and environs, from earliest Palaeo-Indian times to the early colonization of New York. Lectures illustrated from original research material, with visits to museums, and field trips to local archaeological sites. No previous coursework in archaeology necessary.

Not offered in 1988-89.

3 points.

ANT W 4509y. The Rhetoric of Ethnography: Problems in the Textual Representation of Culture.

The seminar "deconstructs" ethnographic writing to disclose the rhetoric and politics of social anthropology, and the textual basis of its dominant paradigms.—A. Apter.

3 points. *W 6:10-8:00, plus hour to be arranged.*

ANT W 4625x. Anthropology and Film.

Use of film by anthropologists as a means of documentation of culturally patterned behavior and as a research tool. Films will also be analyzed as cultural texts.—P. Rubel.

3 points. *Th 1:10-4:00.*

ANT G 4114x. Religion in Anthropological Perspective.

Religion as a dimension of culture; comparison of ideological systems. Topics include the study of religious phenomena, myth and symbolism, rituals and practitioners, and the interplay between religion and social change.—M. Klass.

Not offered in 1988-89.

3 points.

ANT G 6352x. Museology.

An examination of museums as reflectors of social priorities which store important objects and display them in ways that present significant cultural messages. Discussion of history, natural history and art museums, and visits to several New York museums. Students will learn how a museum functions and will work in a new departmental museum, the William Duncan Strong Museum of Anthropology,

designing and preparing an exhibit.—N. Rothschild.

Not offered in 1988-89.

4 points.

Dance DAN BC 2568y. Dance and Movement: An Anthropological Approach.

An investigation of the theories and methods used to observe and analyze dance and movement in symbolic and social contexts. Critical examination of texts from the literature of anthropology and of dance. Course includes film viewing, practice in making observations, and a field work project.—C. Novack.

3 points. *Not offered in 1988-89.*

SEMINARS

ANT C 3830x. Colloquium: An Archaeological Perspective on Cultural Evolution.

A critical examination of theories dealing with the evolution of complex societies in pre-history. Topics include the development of urbanism, hydraulic agriculture, militarism, population pressure, and the role of religious ideology in the transformation from egalitarian to state-level societies.—T. D'Altroy.

4 points. *M 9:00-10:50.*

S

ANT BC 3142x, y. Colloquium: Current Anthropological Theory.

Intensive analysis of selected theoretical approaches and issues in anthropology.

Enrollment limited to ca. 16 students.

4 points.

S

ANT BC 3142x. I. Male and Female in Cultural Analysis.

An examination of male and female perspectives as they affect analysis of social structure, symbolism and political authority. A. Rosman.

Not offered in 1988-89.

ANT BC 3142x. II. The Eclectic Approach in Anthropology.

An argumentative inquiry into the nature of theory in contemporary anthropology from the monotheoretical (such as Cultural Materialism) to the eclectic.—M. Klass.

M 2:10-4:00.

III. The Study of Cities.

The origins, growth and definition of cities are discussed, with particular attention paid to the spatial organization of cities and the development of neighborhoods. New York City is used as a laboratory for analysis, and each student

Anthropology

will choose a part of the city to study.
Not offered in 1988-89.

ANT V 3500y. Colloquium: Problems in Structuralism.

Reading and research in anthropological theories of structuralism; review of works of Claude Lévi-Strauss, Edmund Leach, and others in relation to relevant work in linguistics, psychology, sociology and philosophy.—R. Murphy.

Enrollment limited to 20 students.

4 points. W 11:00-12:50.

S

ANT V 3700x. Colloquium: Anthropological Research Problems in Complex Societies.

Study of the local community and its relationship to regional and national societies; discussion of plural societies, minority and ethnic groups in a cross-cultural setting. Cases selected from Africa, Latin America, Asia, Europe, and North America.

Not offered in 1988-89.

4 points.

ANT V 3715x. Colloquium: Anthropology and American Society.

Qualitative studies of class cultures, ethnic communities, and subcultures in American society as well as institutional (educational, medical) and bureaucratic cultures.—K. Newman.

Not offered in 1988-89.

For juniors and seniors.

4 points.

S

ANT V 3720x. Colloquium: Marxism and Ethnography.

Examination of some basic sources of Marxist social theory, their implications for anthropological theory and method, and selected ethnographies influenced by or relevant to them.—K. Newman.

Enrollment limited to 20 students.

3 points. M 4:10-6:00.

ANT V 3905y. Aztecs, Mayas, and the Mesoamerican Past.

Traces the cultural history of ancient civilizations in Mexico and Central America from their origins to the Spanish conquest.—R. Hassig.

3 points. M W 2:40-3:55.

ANT V 3920x. Seminar: The Evolution of Prehistoric Economic Systems.

A survey of the models and methods appropriate to analysis of the development of economic systems from the earliest societies to the rise of the ancient civilization. Problems considered include analysis of subsistence

strategists, specialization of production, economic differentiation, and exchange systems from a variety of perspectives. Models and data will be drawn from archaeological, ethnoarchaeological, and ethnohistorical sources.—T. D'Altroy.

Introduction to Archaeology or permission of the instructor required. Enrollment limited to 15 students.

Not offered in 1988-89.

4 points.

ANT C 3942y. Colloquium: Anthropological Study of Ritual.

The role of symbols in complex economic and political organizations in the commercial sector of London's financial district, among Hausa merchants in Nigeria, in Islamic revolutions in the Middle East.—E. Combs-Schilling.

4 points. M 11:00-12:50.

ANT BC 3868y. Ethnographic Research in New York City.

Seminar-Workshop on field research in New York City. Lectures, discussions and demonstrations of research methods of anthropology followed by supervised field research on selected ethnographic topics in a variety of urban settings.—P. Rubel.

Enrollment limited to ca. 16 students.

Field work required. Not offered in 1988-89.

4 points.

ANT W 4346y. Laboratory Techniques in Archaeology.

Training in general archaeological methods. Data recording techniques, preparation of reports, illustrations, etc. Should be taken simultaneously with W 4348x.

Not offered in 1988-89.

Enrollment limited to 15 students.

Not offered in 1988-89.

3 points.

ANT W 4347y. Economic Anthropology.

Approaches to the study of resource allocation: production, consumption, and distribution in tribal and peasant societies. Contemporary theoretical issues and selected ethnographic accounts.

Not offered in 1988-89.

3 points.

S

ANT W 4350y. Cultural Resource Management.

Discussion of laws and regulations concerning the preservation of national archaeological resources and the procedures of cultural resource management. Contribution that

Anthropology

public archaeology makes to research in the discipline.—N. Rothschild.

Not offered in 1988-89.

3 points.

S

ANT BC 3871x-ANT BC 3872y. Senior Research Seminar.

Discussions and conferences on individual advanced research projects including those which have developed from students' participation in Anthropology BC 3868. Each student is engaged in independent research under the guidance of her Senior Essay Adviser. All students participating in the seminar may meet together periodically for joint discussion. During the Spring Term a final seminar meeting may be held at which students present their work prior to its submission as satisfying the Senior Research Essay requirement of the Department.—Staff.

4 points. Hours to be arranged.

ANT BC 3999x, ANT BC 3999y.

Individual Projects.

Research projects are planned in consultation with members of the department and work is supervised by the major's Research Essay adviser. The advisory system requires periodic consultation and discussion between the student and her adviser as well as the meeting of specific deadlines set by the Department each semester.—Staff.

Permission of the instructor required.

4 points. Hours to be arranged.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department chairman and the major adviser. These courses are described in the Bulletin for the Graduate School of Arts and Sciences. As noted, graduate seminars may be used to satisfy the requirement of 2 colloquia and graduate area courses may be used to fulfill the area course requirement.

Architecture

Office: 310 Barnard Hall

Telephone: 280-8430

Assistant Professor

Donna V. Robertson (Program Director)

Adjunct Assistant Professors

Peggy Deamer, Kunio Kudo, Suzanne Stephens

Other officers of the University offering courses listed below:

Assistant Professors

Marta Gutman, Roy Strickland (Columbia College Departmental Representative)

Adjunct Assistant Professors

Randall Ott, Alexandra Papageorgiou, Eugene Santomasso, Andrew Tesoro, Michael Webb.

Architecture majors experience and investigate the central aspects of the field. The major provides an inclusive program offering opportunities to explore historical and contemporary relationships among physical, social and cultural forms and environmental contexts. Active studio work complements seminar discussions, lectures and research; students are required to choose a “cluster” of courses in another area of particular interest, thus relating architecture to other disciplines.

Students considering an Architecture major or minor should consult with the adviser before sophomore registration to develop the most appropriate sequence of studio and lecture courses. Those interested in graduate study in architecture should consult with the adviser in their junior year concerning their programs.

REQUIREMENTS FOR THE MAJOR

The major in Architecture is required to complete fourteen courses, at least five of which should be Barnard courses:

4 Studio courses, to be taken one per semester (studio courses have limited enrollment and priority is given to Architecture majors and upperclassmen):

ARC V 3103
ARC V 3101
ARC V 3201-ARC V 3202

Freehand Drawing
Architectural Graphics
Elements of Architectural Design
I and II

5 Lecture courses from the following list:

ARC C 1001
ARC C 3301
ARC C 3302
ARC BC 3117
ARH V 3080
ARH W 3150

ARH V 3248
ARH V 3250
ARC A 6730
ARC A 4341
ARH C 3833
ARH W 4418
ARH G 4572

ARC A 4330-4331
ARC A 4480

Introduction to Architecture
The Beginnings of Architecture
Architecture of the Western World
Perceptions of Architecture
Pre-Columbian Art & Architecture
Art & Architecture of the Ancient
Near East
Greek Art and Architecture
Roman Art and Architecture
American Architecture before 1876
American Architecture 1876-1976
Modern Architecture
Roman Baroque Architecture
French & Italian Architecture in the
18th Century
Urban History I and II
Elements of Landscape Architecture

Architecture

2 Seminars to be taken in the junior or senior year:

ARC V 3901
ARC BC 3431

Art History C 3990
ARC BC 3443
ARH C 3961
ARC A 4372

Senior Seminar I or II
Architectural Criticism in the Essay Form
The Literature of Modern Architecture
Principles of Japanese Architecture
Bernini and Borromini
Skyscrapers

Each semester there are other applicable courses scheduled at the University that can be taken upon approval of the adviser. For the description of these courses consult the listings of other departments.

3 courses, chosen in consultation with the adviser from one area of study or cluster such as Anthropology, Art History, Economics, Environmental Science, Geography, History, Philosophy, Physics, Political Science, Psychology, Sociology, Urban Studies, or Studio Art.

The Architecture program is a liberal arts major, not a professional degree program. It does not qualify students for a licensure in Architecture.

Students who wish to continue in graduate studies in Architecture for a professional degree are also advised to take:

ARC BC 3211
Physics V 1003
Mathematics V 1100

Intermediate Design I
General Physics
Brief Calculus

REQUIREMENTS FOR THE MINOR

The minor in Architecture consists of five courses, including V 3103 and 3 History/Theory courses to be chosen in consultation with the adviser.

Note: All studio, seminar, and upper level courses require the permission of the instructor at the first meeting of the class.

COURSES OF INSTRUCTION

ARC C 1001y. Introduction to Architecture.

Intended for prospective architecture majors as well as those interested in acquiring a general familiarity with architecture. Basic concepts and representative buildings. Lectures, readings, discussions and field trips.—Instructor to be announced.

Recommended in the freshman or sophomore year.

3 points.

ARC BC 3117y. Perceptions of Architecture.

Introduction to various methods by which we look at, experience, analyze, and criticize architecture and the built environment; development of fluency with architectural concepts.—Peggy Deamer.

Designed for but not limited to sophomores; enrollment beyond 20 at the discretion of the instructor.

3 points. M W 1:10-2:25.

ARC C 3301x. The Beginnings of Architecture.

Survey of the history of architecture from prehistoric times through the fall of Rome, including major examples of non-Western architecture.—E. Santomasso.

Recommended in the sophomore year.
3 points. Tu Th 2:40-3:55.

ARC C 3302y. Architecture in the Western World.

Continuation of Course C 3301. Survey of European architecture from the fall of Rome to the beginnings of the Industrial Revolution.—E. Santomasso.

Recommended in the sophomore year.
3 points. Tu Th 1:10-2:25.

Architecture

ARC V 3901y. Senior Seminar.

Readings, individual class presentations, and written reports.—D. Robertson and M. Gutman.

Open to architecture majors only.

3 points.

Section I F 10:00-12:00.

Section II Th 11:00-1:00.

ARC BC 3431x. Architectural Criticism in the Essay Form: Seminar.

Investigation of three critical modes developed by architectural historians, journalists and architects in relation to architecture and urban design. Analysis of key texts written from the 1850s to the present.—S. Stephens.

3 points. W 11:00-12:50.

ARC BC 3443 y. Principles of Japanese Architecture: Seminar.

Investigations of traditional Japanese architecture and related arts, through study of the history, culture, building typologies, aesthetics/space concepts and formal analysis. Examples such as the Ise Shrine, Horyuzi Temple, Katsura, will be studied.—K. Kudo.

4 points. W 4:10-6:00. Rm. 411 Barnard Hall.

STUDIO COURSES

ARC V 3103x, V 3103y. Freehand Drawing.

Drawings from nature and architecture; spatial notations; image systems and their use; research in three dimensions.—M. Webb.

Recommended in the sophomore year.

3 points.

Section I Tu Th 9:00-10:50.

Section II Tu Th 11:00-12:50.

ARC V 3101x, ARC V 3101y.

Architectural Graphics.

Studio introduction to a two- and three-dimensional graphics vocabulary with emphasis on measured drawing techniques and scale model construction.

Recommended in the sophomore year.

3 points.

Section I Tu Th 9:00-10:50. R. Ott.

Section II Tu Th 11:00-12:50. A. Tesoro.

Section III Tu Th 7:00-8:50 p.m.

A. Papageorgiou.

ARC V 3201x. Elements of

Architectural Design I.

Workshop introduction to architectural design: fundamental explorations of space and form through design exercises requiring drawings and models. Studio work, lectures, discussions and written analysis—D. Robertson and staff.

Prerequisite: V 3103 or V 3101.

4 points. M W 9:00-11:50.

ARC V 3202y. Elements of

Architectural Design II.

Workshop continuation of Course V 3201. Field trips and lectures organized in relationship to the studio exercises.—Roy Strickland and staff.

Prerequisite: V 3201.

4 points. M W 9:00-11:50.

ARC BC 3211x. Intermediate Design I.

Further exploration of the design process. Programs of considerable functional, contextual, and conceptual complexity are undertaken.—D. Robertson.

Candidates for admission to the course are chosen by interview during registration. Eligible students are requested to consult the program adviser for Barnard College before the first meeting of class.

Prerequisites: V 3202 and permission of the program adviser.

4 points. Tu Th 9:00-11:50.

ARC BC 3099x, 3099y. Independent Study.

Prerequisite: permission of program adviser for Barnard College, in semester prior to that of independent study.

Art History

Office: 301 Barnard Hall

Telephone: 280-2118

Professor

Barbara Novak (Helen Goodhart Altschul Professor)

Visiting Professor

Keith Moxey

Adjunct Professors

Maryann Ainsworth, Brian O'Doherty

Associate Professor

Jane Rosenthal

Assistant Professor

Margaret S. Nesbit¹

Other officers of the University offering courses listed below:

Professors

James Beck, Richard Brilliant, Joseph Connors,¹ Alfred Frazer, David Freedberg, Robin Middleton, Miyeko Murase, Stephen Murray, Esther Pasztory, Theodore Reff,² David Rosand, Allen Staley

Associate Professors

Suzanne Blier, Rainer Crone, Vidya Dehejia,

Assistant Professors

Hilary Ballon,² Barry Bergdoll,² Jerrilyn Dodds, Michael Marrinan, Janis Tomlinson

¹Absent on leave, 1988-89

²Absent on leave, Autumn Term

Art History, which is devoted to the study of the visual arts, is one of the broadest of the humanistic disciplines. It is concerned not only with the nature of works of art—their form, style, and content, but also with the social, political, and cultural circumstances that shape them. The introductory level courses aim at developing in students a lifelong understanding and appreciation of works of art. The rest of the curriculum is geared to preparing majors either for graduate study leading to careers in university teaching and museums, or for positions in the art world, in galleries, publication, criticism, the visual media, art consultation, conservation, and the like. These courses also provide opportunities for correlated learning to students in other fields. The department, fortunate in being located in New York City, one of the world's great art centers, takes full advantage of the rich resources of the city's museums and galleries in its course of study.

REQUIREMENTS FOR THE MAJOR

Each major chooses an adviser who assists her in planning a program that incorporates personal interests while meeting departmental requirements. Nine courses are required for the major. The nine courses should include at least one in each of the following periods—ancient, medieval, renaissance, baroque and modern—and two seminars. Both seminars may be taken in one of the five required periods. Art History BC 1001, 1002, Introduction to the History of Art, is strongly suggested as an introduction to the field unless a student has sufficient previous training. Each semester of BC 1001-1002, counts as an elective toward fulfillment of the nine course requirement but neither this, nor any other broad survey, can be substituted for a course in one of the five major areas. Of the nine courses required, four lecture courses and one seminar should be taken at Barnard. Majors concentrating in Oriental art and who will write their senior essay in that field may substitute a course in Chinese or Japanese art for one of the five area requirements in Western art. Courses in film are accepted as part of the major; studio courses are not.

A senior essay is required of the major. With the chairman's permission, seniors may elect Art History BC 3999, *Independent Research*, for the senior essay but the course may not be used to fulfill the seminar requirements. The senior essay may be an expansion of a seminar paper.

Art History

Students who plan to undertake graduate work should obtain a reading knowledge of at least two foreign languages in which the major contributions to the history of art have been made. Most graduate schools require a reading knowledge of French and German; the department strongly recommends taking German while at Barnard.

REQUIREMENTS FOR THE MINOR

The minor in Art History consists of five lecture courses, including Art History BC 1001 and BC 1002, and one each in three of the following periods: ancient, medieval, renaissance, baroque, and modern.

COURSES OF INSTRUCTION

ARH BC 1001x, ARH BC 1002y.

Introduction to the History of Art.

Brief examination of the techniques of visual analysis, followed by a chronological survey of the major period styles of Western European art. Emphasis on the interpretation of form and content in the works studied and on the correlation of the visual arts with their respective cultural environments. Autumn Term: Greek and Roman art, medieval art. Spring Term: Renaissance to modern art.—Instructor to be announced.

Either course may be taken separately.

3 points. M W 1:10-2:25.

H

period in the late first millennium B.C.—J. Russell.

3 points. W F 10:35-11:50

H

ARH W 4127x. A History of Indian Art.

Commencing with the cities of the Indus civilization in the third millennium BC, this wide-ranging survey will take us through the history of Buddhist, Hindu, and Islamic monuments of the Indian subcontinent. The arts of sculpture and painting are highlighted, and the art of adjoining areas such as Nepal and Sri Lanka are considered.—V. Dehejia.

3 points. W 4:10-6:00.

H

ARH W 3030y. Arts of Africa, Oceania, Native America.

A survey of tribal art styles of Africa, Oceania and America with emphasis on function, iconography and historical relationships. —S. Blier.

Not offered in 1988-89.

3 points.

ARH V 3201x. Arts of China.

Survey of Chinese art from Neolithic to the last dynastic period of Ch'ing, with emphasis on bronzes, Buddhist art, and great landscape painting of the Sung and later periods; arts of Central Asia and India as they affect the arts of China.—M. Wong-Gleysteen.

Not offered in 1988-89.

3 points.

H.

ARH V 3080x. Pre-Columbian Art and Architecture.

Survey of pre-Hispanic art of Mesoamerica, Central America, and the Andean region from the earliest times to the Spanish conquest.—E. Pasztory.

Not offered in 1988-89.

3 points.

H

ARH V 3203y. Arts of Japan.

Survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods with emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens, and wood-block prints.—M. Murase.

3 points. Tu Th 4:10-5:25.

H

ARH W 3133y. Islamic Art and Society.

Major monuments of a millennium of Arab and Persian art as an expression of the development and growth of Islamic civilization.—J. Dodds.

Not offered in 1988-89.

3 points.

H

ARH G 4121x. Art and Architecture of the Fujiwara and Kamakura.

A survey of the Buddhist arts and narrative painting, from the eleventh through the thirteenth century.—M. Murase.

3 points. W 2:10-4:00.

ARH W 3150x. Art and Architecture of the Ancient Near East.

Arts of the ancient cultures of Mesopotamia, Iran, Anatolia, Syria, and Palestine from the 4th millennium through the Achaemenid

Oriental Humanities ORH V 3342x.

Masterpieces of Islamic and Indian Art.

Analysis and discussion of the significance of selected works of art and architecture of

Art History

Islam and Buddhist and Hindu India.—V. Dehejia and J. Dodds.
3 points. Tu Th 10:35-11:50. H

ARH V 3245y. Art and Architecture of Greece in the Bronze Age.

A survey of the art on Crete, the Greek mainland and Cyprus, from the earliest times through the Bronze Age, with an emphasis on architecture, wall-painting and painted pottery.
Not offered in 1988-89.
3 points.

ARH V 3247x. Greek Mythology in Ancient Art and Literature.

An analytic and comparative survey of major Greek myths in terms of their application and representation in Classical literature and art.
Not offered in 1988-89.
3 points.

ARH V 3248x. Greek Art and Architecture.

Examination of the principal monuments and themes of Greek art in sculpture, painting, architecture, and city planning from the Mycenaeans to the Roman conquest.—A. Frazer.
3 points. Tu Th 2:40-3:55. H

ARH V 3250y. Roman Art.

Architecture, sculpture, and painting of ancient Rome from the second century B.C. to the end of the Roman Empire in the West.—R. Brilliant.
3 points. Tu Th 2:40-3:55. H

ARH W 4315y. The Making of Medieval Art, 650-900.

The development of medieval art in the Germanic kingdoms of western Europe from the mid-7th Century to the end of the Carolingian Empire.—J. Rosenthal.
3 points. W 4:10-6:00.

ARH BC 3351x. Early Christian and Early Medieval Art.

The origins of Christian art and architecture before Constantine and the subsequent development of architecture, sculpture and painting under the patronage of church and state in Western Europe from the 4th through the 11th century.—J. Rosenthal.
3 points. M W 2:40-3:55. H

ARH BC 3352y.

Art of the Later Middle Ages.

Architecture, sculpture, and painting in the Romanesque and Gothic periods, with emphasis on the French contributions.—S. Murray.
3 points. M W 2:40-3:55. H

ARH W 4313y. English Art in the 12th Century.

Romanesque art in England with emphasis on painting, sculpture, and the luxury arts.—J. Rosenthal.
Not offered in 1988-89.
3 points. Additional hour for undergraduates.

ARH W 4335x. Romanesque Sculpture.

The rebirth of monumental sculpture in the 11th and 12th centuries, with emphasis on the relationship between the works' form and meaning. The course will include lecture and discussion.—J. Dodds.
Not offered in 1988-89.
3 points. Additional hour for undergraduates.

ARH W 4358x. Art and Architecture of Medieval Spain.

The principal monuments of Christian and Islamic artistic traditions on the Iberian peninsula from the 6th to the 12th century. Emphasis on architecture and architectural decoration, with some discussion of manuscripts and wall painting. Attention will be given to the political, social, and cultural context of the works studied.—J. Dodds.
3 points. Tu 6:10-8:00. H

ARH W 3400x.

Italian Renaissance Painting.

The work of the major masters who flourished in the 15th and early 16th century with special emphasis given to Masaccio, Piero della Francesca, Leonardo da Vinci, Giovanni Bellini, Giorgione, Titian and Michelangelo.—J. Beck.
3 points. M W 4:10-5:25. H

ARH W 3420y. Italian Sculpture during the Renaissance.

Survey of developments from the 13th to the 16th century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo.—J. Beck.
Not offered in 1988-89.
3 points. H

Art History

ARH V 3437y. Italian Renaissance Painting II: The Sixteenth Century.

The styles and significance of painting in Italy, with discussion of the concepts of High Renaissance and Mannerism. Emphasis on major figures.—D. Rosand.

Not offered in 1988-89.

3 points. H

ARH V 3475x. Northern Renaissance Painting.

Fifteenth- and sixteenth-century painting in the north of Europe with particular attention to Flanders and Holland. The development of realism and style in the light of their relation to social change and the general ideas of the period, with emphasis on the works of Jan van Eyck, Rober van der Weyden, Peter Bruegel, Durer and Grunewald.—Instructor to be announced.

3 points. W F 11:00-12:15. H

ARH V 3500y. Seventeenth Century Art in Italy, France, and Spain.

Painting and sculpture in Western Europe, 1580-1660. The Baroque style in relation to its cultural and political background, with emphasis on the major artists: Annibale Carracci, Caravaggio, Rubens, Bernini, Poussin, Velazquez, Hals, Rembrandt, and Vermeer. Brief exploration of the innovative architecture of Borromini and Bernini.—H. Ballon.

3 points. M W 11:00-12:15. H

ARH W 4356. Gothic Painting in France, 1200-1350.

Origins and development of French Gothic painting from the *Ingeborg* Psalter through the works of Pucelle and his circle.—J. Rosenthal.

Not offered in 1988-89.

3 points. H

ARH W 4565y. Flemish Painting from Bruegel to Rubens.

A survey of the principal painters active in the Netherlands from ca. 1560 to ca. 1670. Special attention to Bruegel, van Dyck and Rubens.—D. Freedberg.

Not offered in 1988-89.

3 points. H

ARH W 4624x. American Painting, 1760-1900.

A consideration of some of the principal ideas behind the American painting tradition, with special attention to varying

concepts of realism and idealism and to correspondences in philosophy, science, and literature.—B. Novak.

3 points. Tu Th 2:10-3:25. Additional hour for undergraduates. H

ARH V 3748y. Eighteenth Century Painting in Europe.

From Watteau and Tiepolo to David and Goya. Emphasis on new styles and subjects appearing between 1750 and 1800 and their relation to the contemporary cultural and social background.—A. Staley.

Not offered in 1988-89.

3 points. H

ARH W 3600x. Nineteenth Century Art.

Painting and sculpture in Western Europe from 1789-1900; Neoclassic, Romantic, Realist, Impressionist, and Post-Impressionist movements.—A. Staley.

3 points. M W 4:10-5:25. H

ARH W 3650y. Twentieth Century Art.

Major trends and sources of 20th century painting, sculpture and architecture with emphasis on understanding the cultural environment and related developments.—R. Crone.

3 points. H

ARH BC 3678x. Modern Art: The Avant-gardes, 1890-1930.

Formation of the avant-garde art groups in Europe from the Symbolists to the Surrealists, paying particular attention to the ways avant-garde art functioned in a newly modernized industrial culture. Short films will be shown.—M. Nesbit.

Not offered in 1988-89.

3 points. H

Fee for films \$5.00.

ARH W 4645y. The History of Postmodernism.

Examination of the historical and theoretical conditions for Postmodernism. Special attention will be paid to the relations between technologically based forms of culture (film, photo and video) and the surviving traditional forms.—M. Nesbit.

Not offered in 1988-89

3 points.

ARH BC 3679y. Modern Art: Modernism and the Mass Media, 1930 to the Present.

The development of modernist painting in Europe and America from 1930 to the present

Art History

with a study of the contemporary developments in film, photography and the mass media image. Analysis of the two levels of culture and their exchanges, including the consequences for the criticism and theory of the image. Avant-garde and Hollywood feature-length films will be shown each week.—M. Nesbit.

Not offered in 1988-89.

Fee for films: \$30.

3 points.

H

ARH C 3020x. Drawings and Prints.

The changing styles and functions of drawings from the 15th century to the present and the development of printmaking as an expressive medium. Emphasis on such artists as Pisanello, Leonardo, Durer, Michelangelo, Rembrandt, Goya, Picasso.—D. Rosand.

Prerequisite: Humanities C 1121, or

ARH BC 1002x.

3 points. M W 1:10-2:25. 501 Schermerhorn.

ARH W 3601y. Post-Naturalist Painting.

An investigation of how language, literature, and scientific theory affected picture-making in Europe after the radical naturalism of the 1860s and early 1870s. The period is bracketed in France by the Impressionist painters and upon developments in England, Germany and Austria.—M. Marrinan.

3 points.

ARH F 3681y. Museum Studies: French Prints and Illustrated Books from Manet to Matisse.

Masters' prints are discussed in terms of subject matter, techniques, and stylistic development. Firsthand study of originals in the Metropolitan Museum's collection with attention to connoisseurship.—C. Ives.

Enrollment limited to 15 students.

Not offered in 1988-89.

3 points.

H

ARH C 3833x. Modern Architecture.

Major currents in European and American architecture and city planning, 1789 to the present. Attention to major theoretical statements, sociopolitical content, and the evolution of the architectural profession.—B. Bergdoll.

Not offered in 1988-89.

3 points.

SEMINARS

Seminars have limited enrollment. Permission of the instructor is required for admission to all Barnard and Columbia seminars. In addition, it is strongly recommended that students seeking admission to a seminar have previously had a lecture course in the area. Students must sign up for Columbia seminars at 826 Schermerhorn.

ARH C 3913x. Art in Periclean Athens.

Attic Greek art as an expression of the religious and cultural values of the Athenian state between the Persian Wars and the end of the fifth century B.C.—B. Cohen.

Not offered in 1988-89.

4 points.

ARH C 3933x. Medieval Art at the Cloisters.

Most meetings at the Cloisters. Consult departmental office for location of first meeting.—J. Dodds.

Prerequisite: Art History 3352y or the equivalent.

4 points. F 10:00-12:00.

H

ARH BC 3953y. The Art of Medieval Manuscript Illumination.

Principal forms of decoration and illustration in medieval manuscripts, including examination of original works in collections in New York City.—J. Rosenthal.

Not offered in 1988-89.

4 points.

H

ARH BC 3983x. Neoclassicism: 1760-1800.

An examination of the complex artistic exchanges in Paris and Rome leading to the full-fledged neoclassical style of Jacques-Louis David, John Flaxman and Antonio Canova.

Prerequisite: Permission of the instructor.

Not offered in 1988-89

4 points.

ARH C 3984x. Paul Cézanne.

An in-depth study of the art of Paul Cézanne. Introductory lectures and group discussions will focus on aspects of Cézanne scholarship, historical interpretations of his work, and his importance for various *avant-garde* painters of the twentieth century. Students will prepare oral reports and papers on specific aspects of Cézanne's work, such as recurrent still-life themes, groups of related portraits or

Art History

landscape motifs, and so on.—M. Marrinan.
Prerequisites: Junior standing, at least one course in nineteenth century art, and the instructor's permission.
4 points. W 4:10-6:00

ARH C 3970y. Picasso.

Historical context, personal content, artistic sources and stylistic development of Picasso's art. Emphasis on the study of original works in New York museums.—T. Reff.
Prerequisites: Junior standing, one course in 20th century art, and permission of the instructor.
Not offered in 1988-89
4 points.

ARH BC 3977x.

Modernism and Sexuality: The Problem of Gender in Matisse and Picasso.

A study of the problem of the perception and representation of the female image, especially the nude, in modern art, concentrating on the work of Matisse and Picasso.—M. Nesbit.
Prerequisite: Art History 3678x or 3679y, or permission of instructor.
Not offered in 1988-89.
4 points. H

ARH C 3962y. Abstract Expressionism.

Historical and critical examination of the New York School in the 1940s-60s, with special attention to the painting of Gorky, de Kooning, Pollock, Hofmann, Newman, Rothko, Motherwell, and to the criticism of Rosenberg, Greenberg, and Hess.—D. Rosand.
Prerequisite: Junior standing, one course in modern art.
Not offered in 1988-89.
4 points. H

ARH BC 3971y. Theories of Photography in the Twentieth Century.

A survey of the major theories of photography in Europe and America, and an examination of their relation to one another, as well as their relevance to photographs.—M. Nesbit.
Prerequisite: Art History 3678x or 3679y desirable.
Not offered in 1988-89.
4 points. H

ARH BC 3990x. Duchamp's Work.

Seminar focus is on the model for artistic work elaborated by Marcel Duchamp and its dissemination. Analysis of roles of the little magazine, the regular press and the art gallery

as well as of the critical response to Duchamp's work.—M. Nesbit.
Enrollment limited to 15 students, preferably those having previous course work in modern art (BC 3678-9 sequence). Some reading knowledge of French helpful.
Not offered in 1988-89
4 points.

ARH BC 3982y. The Literature of Art.

Study of literary sources used in art historical research: artists' letters, journals and treatises (by Leonardo, Reynolds, Delacroix, Van Gogh, up to the present), contemporary biographies (Vasari), ideas and writings of leading critics and scholars (Baudelaire, Ruskin, Huizinga, Wolfflin, Worringer, Berenson, Fry, Panofsky, Gombrich, Read, Malraux, Kubler, Sontag).—B. Novak.
Enrollment limited to 16 students. Permission of the instructor required.
4 points. W 2:10-4:00. H

ARH W 3975y. Portraiture.

The motif of portraiture in Western art from antiquity to modern times. Discussion of principal motifs, scenes and means of expression. Short papers and reports, museum visits.—R. Brilliant.
Not offered in 1988-89.
4 points.

ARH BC 3985x. Introduction to Connoisseurship.

Factors involved in judging works of art, with emphasis on paintings: materials, deterioration, damage, restoration, attribution; replicas, copies, imitations, and fakes, questions of relative quality. Meetings at the Metropolitan Museum of Art and the Pierpont Morgan Library.—M. Ainsworth.
Enrollment limited to 10 senior majors. Permission of the instructor required.
4 points. F 10:00-12:00. H

ARH C 3985y.

Introduction to Connoisseurship.

D. Freedberg.
Not offered in 1988-89.
4 points.

ARH BC 3986y. Art Criticism.

Workshop in writing criticism. Short weekly assignments on such matters as language, experience, narrative and the object; close examination of process. Students write art criticism based on their gallery visits and

Art History

refer to current and previous criticism.—B. O'Doherty.

Enrollment limited to 15 students.

Not offered in 1988-89.

4 points.

H

ARH BC 3989y. The Art Film.

Examines the ways in which filmmakers approach the visual arts, using leading examples of films on art. Films on Gauguin, Van Gogh, Edward Munch, Jackson Pollock, Christo and others. Filmmakers include the Maysles brothers, Perry Miller Adato, Barbara Rose, Lucy Jarvis, Danny Lyon, Michael Blockwood and Brian O'Doherty. Papers and criticism will be part of the course work.—B. O'Doherty.

4 points. M 10:00-12:00.

ARH C 3968y. Still-Life Painting, 1850-1900.

Emphasis will be on Manet, Cézanne, Gauguin and Van Gogh.—T. Reff.

Not offered in 1988-89.

4 points.

ARH C 3990y. The Literature of Modern Architecture.

Major theorists and writers on architecture from Winckelmann to the present. Distinctions of genres in architectural writing: treatises, manuals, criticism, histories. Major figures to be discussed include Pugin, Ruskin, Viollet-le-Duc, Wright, Le Corbusier, Venturi and Rossi.—B. Bergdoll.

Not offered in 1988-89.

4 points.

H

ARH BC 3999x, BC 3999y.

Independent Research.

Independent research, primarily for the senior essay, under a chosen faculty adviser and with the chairman's permission.—Staff.

4 points. Hours to be arranged.

H

STUDY ABROAD: REID HALL, PARIS

ARH 3325x, Art and Architecture in France, 1500-1700.

(In English)

For students in the Art History Program.

A survey of the visual arts in France between the reigns of François I and Louis XIV. Topics include the 16th-century chateaux of king and courtier in the Loire valley, the School of Fontainebleau, Philibert de l'Orme and Jacques Androuet Ducerceau, Henri IV's rebuilding of Paris, the development of the hôtel, and such artists as Lescot, Mansart, Le Vau, Hardouin-Mansart, Champagne, La Tour, the brothers Le Nain, Poussin, and Claude. Lectures are supplemented by walking tours.—Hilary Ballon.

3 points.

ARH 3440x. From Poussin to de Piles: Painting and Art Theory in Seventeenth-Century France (Seminar).

For students in the Art History Program.

In the 1660's, a conflict erupted in France between the followers of Poussin and those of Rubens. This debate carried forward the discussion of the priority of line or color in the art of painting. At issue in the theoretical disputes during the second half of the seventeenth century was the nature of painting, with the advocates of classicism insisting on its philosophical aims, and their opponents, led by Roger de Piles, emphasizing the visual effects of painting. An examination of the nature and significance of this debate and French painting in the decades preceding its eruption.—Hilary Ballon.

4 points.

Program in the Arts

Office: 204 Barnard Hall Annex

Telephone: 280-2952

This program is supervised by the Committee on the Program in the Arts:

Professor of Art History

Barbara Novak

Professor of Music

Hubert Doris (Chairman)

Associate Professor of Dance

Sandra Genter

Theatre Director

Paul Berman

Program Coordinator

Deborah Loomis

Advisers for the Concentrations

Dance Janet Soares, 202 Barnard Hall Annex

Music Hubert Doris, 409 Milbank Hall

Theatre Paul Berman, 230 Milbank Hall

Visual Arts Joan Snitzer, 305 Barnard Hall

Writing Ann Birstein, 401D Barnard Hall

The Program in the Arts is offered for a limited number of students who are gifted in one of the performing or studio arts and who wish both to continue the development of their skills and to obtain a liberal education. It is designed as an interdisciplinary major in the arts with concentration in one particular art. The program offers a general introductory course, a junior colloquium, and a senior seminar, as well as directed work in a field of concentration such as visual arts studio, music as a performing art, the dance in all its aspects, theatre as a performing art or as a discipline of literary scholarship, and writing in all its branches.

The Program draws upon the ample resources in the arts which New York City affords, both in opportunities for majors to study with master teachers and in bringing artists to the campus to work with students. Attendance at concerts and dance performances and visits to museums and galleries in the city allow a continuing interaction with the arts.

REQUIREMENTS FOR THE MAJOR

Students are normally admitted to the Program in the Arts in their sophomore year, but freshmen who look forward to entering this major are strongly advised to seek the counsel of advisers as early as possible in shaping their programs so as to include courses in at least two arts other than that in which they expect to concentrate. Recommended courses include: Art History BC 1001, BC1002; Dance BC 2566; English BC 3103, BC 3104, etc.; English BC 3129; and Music BC 1001-BC 1002. Admission is based upon application to be made in the spring of the sophomore year. Applicants provide supporting evidence of their individual skills. There are broad general requirements and special ones in each of the disciplines, but each student's program is shaped individually.

Students accepted as majors may take classes with artist teachers in New York City.

Each student is required to take the three courses offered by the Program:

Arts BC 3031

Imagery and Form in the Arts

Arts BC 3351

Junior Colloquium and

Arts BC 3591

Senior Seminar

Program in the Arts

In lieu of a senior thesis, majors in the Program offer an equivalent demonstration of mastery in the discipline: dancers present concerts; musicians perform solo recitals; theatre majors work as actors, designers, directors, or in a combination of these in a theatrical presentation; writers submit portfolios of stories or poems or both; visual artists hang shows of their work.

Requirements of the various concentrations within the Program are outlined in the following lists. A student should consult with the faculty member on the Committee who is responsible for the area in which her interest lies.

REQUIREMENTS FOR THE MINOR

No minor is offered in the Program in the Arts.

COURSES OF INSTRUCTION

PIA BC 3031x.

Imagery and Form in the Arts.

The operation of imagery and form in dance, music, theatre, visual arts, and writing; students are expected to do original work in one of these arts.—J. Snitzer.

3 points. M 2:10-4:00.

Conference hour M 6:00-7:00.

PIA BC 3351y. Junior Colloquium.

An interdisciplinary consideration of a crucial period in the history of the arts. The interrelationship of the arts, their separate and common critical vocabularies, their borrowings from each other, their defining differences. Consideration of style in the various arts and major figures in the period whose innovations in style or inventions in technique led to new forms. Special attention to developing skills in writing and discussion and equipping students to deal with the special problems that accompany the examination of the art. Theme for 1988-89: The Baroque.—J. Roosevelt and H. Doris.

4 points. M 2:10-4:00.

PIA BC 3591x. Senior Seminar.

Contemporary issues in the arts, with reports and projects leading to a thesis or performance. Participating students are encouraged to work in groups, whenever their interests coincide or the logic of performance suggests such collaboration. Theme for 1988-89: Expressionism.—Instructor to be announced.

4 points. Tu 4:10-6:00.

Conference hour M 6:00-7:00.

STUDIO COURSES IN ART

Studio courses, 2003x, 2004y, 2005x, 2006y, 2007x, 2008y, are given at Barnard. Enrollment is limited and students must sign up. Other studio courses are given at the School of the Arts, in Dodge Hall, and students may register for these only with written permission of the departmental representative. Classes are limited in size. Students who wish to enter the Columbia courses are required to

apply for space in 305 Dodge Hall during the preregistration period prior to each term. Model fees range from \$20.00 for any two-point course to \$45.00 for a three-point course in printmaking. For students not majoring in the Program in the Arts (Visual Arts), a maximum of four courses of studio work may be credited; each of the second two must be matched with an art history course to be credited.

PIA BC 2003x, PIA BC 2004y.

Studio Painting.

Studio courses in painting with acrylic and oil; supplementary instruction in drawing and the use of color. Emphasis on individual development.—A. McCoy.

2 points. Th 2:10-6:00.

PIA BC 2005x, PIA BC 2006y, PIA BC 2007x, PIA BC 2008y. Painting.

Basic skills developed by setting specific tasks to be executed in painting. Previous art training is not necessary.—J. Snitzer.

2 points. W 2:10-6:00.

Courses required for the

Dance concentration:

Dance BC 2561.

Anatomy for the Dancer and Technique.

Dance BC 2562.

Movement Analysis and Technique.

Dance BC 2563.

Form in Dance Composition.

Dance BC 2564.

Content in Dance Composition.

Dance BC 2565, BC 2566.

History of Dance.

Dance BC 2567.

Fundamentals of Music for Dancers.

Dance BC 3571.

Performance Styles and Technique.

Dance BC 3572.

Repertory in Production and Technique.

Dance BC 3574.

Contemporary Choreographers and Their Works.

Program in the Arts

Courses required for the Music concentration:

Any two of the following:

- Music V3124. *History II.*
- Music V3125. *History III.*
- Music V3126. *History IV.*

Plus the following courses if the student is not exempted from them upon entrance into the Program:

- Music V2100-V2101. *Theory I and II.*
- Music V2300-V2301. *Theory III and IV.*
- Music V2303-V2305. *Theory V and VI.*

Courses required for the Theatre concentration:

- THR BC 3131.
 Basic Design for the Theatre.
- THR BC 3001.
 Acting I: Introduction to Acting.
- THR BC 3002.
 Acting II: Introduction to Scene Study.
- THR BC 3003.
 Acting III: Advanced Scene Study.
- THR BC 3004.
 Acting IV: Problems in Style.

Plus any two of the following:

- ETR BC 3131.
 History of the Theatre: Greeks to Shakespeare.
- ETR BC 3132.
 History of the Theatre: Shakespeare to the 19th Century.
- ETR BC 3133.
 History of the Theatre: Modern Period.

Three courses in dramatic literature drawn from the following:

- Class. Lit. V 3123.
 Greek Drama and its Influences.
- English BC 3163 or BC 3164.
 Shakespeare.
- English BC 3186.
 Modern Drama.
- French BC 3034.
 The French Theatre of the Seventeenth Century.

Greek V 3305.

Tragedy.

German BC 3025.

The Age of the Bourgeoisie in German Literature.

German BC 3026.

Contemporary German Theater.

Dance Technique. One semester. (Dance composition may be substituted upon evidence of adequate prior training.)

Courses required for the Visual Arts concentration:

- Art History BC 1001, BC 1002.
 Introduction to the History of Art.
- Art History BC 3678, BC 3679.
 Modern Art.
- Art History BC 3986.
 Art Criticism or any advanced Art History seminar.

A minimum of four studio courses, to be selected from offerings listed in the Barnard catalogue.

Courses required for the Writing concentration:

Four courses selected from the following:

- English BC 3103, BC 3104.
 Exposition.
- English BC 3105, BC 3106.
 Fiction and Non-Fiction.
- English BC 3107, BC 3108.
 Experiments in Writing.
- English BC 3111, BC 3112.
 Story Writing.
- English BC 3113, BC 3114.
 Dramatic Writing.
- English BC 3193.
 Critical Writing.

Plus two advanced courses from any of the College departments of language and literature.

Biological Sciences

Department Office: 1203 Altschul Hall

General Biology Course Office: 911 Altschul Hall

Telephone: 280-2437

Telephone: 280-2153

Professors

Philip V. Ammirato,¹ William A. Corpe, Patricia L. Dudley

Associate Professors

Julia Chase, Paul E. Hertz (Chairman), Frederick E. Warburton

Assistant Professors

Nathan M. Chu, James P. Mohler

Visiting Assistant Professor

Esther Hager

Instructor

Marc Weissburg

General Biology Laboratory Staff: Director

Alice M. Walrath

Assistant Directors

Mary Ellen Calitri, Rosemary Knapp

Laboratory Associates

Ruth Fisher, Esther I. Muehlbauer, Harriet S. Waks

Other officers of the University offering courses listed below:

Professors

Walter J. Bock, Eric Holtzman, Darcy K. Kelley,¹ Michael S. Levine, Eduardo R. Macagno, Alberto L. Mancinelli, James L. Manley, Carol L. Prives, Catherine L. Squires, Alexander A. Tzagoloff, Geoffrey L. Zubay

Assistant Professors

Martin Chalfie, Susan DeRiemer, Laurel Eckhardt, Janet Kurjan, Teri Melese, Stephen M. Mount, Diane M. Robins

Lecturer

Julia P. Cino

¹Absent on leave, 1988-89

Biology is a field which explores the structure, function, interactions, and evolution of living organisms. It includes the study of communities, populations, whole organisms, organs, tissues, cells, and subcellular components. Some of the most exciting issues of the day, such as those relating to ecological problems, biotechnology, genetic engineering, and environment and health, require a strong background in biology. At Barnard, courses cover molecular biology; the fine structure, development and physiology of cells, tissues, and organs; the embryology, behavior and structure of organisms; and the ecology and evolution of populations.

Many students specialize in this field in preparation for a career in medicine, dentistry, public health, or nutrition, while others anticipate graduate work in one of the many subfields of biology leading to a teaching and research career. Still others plan futures as biological or medical librarians, scientific writers, illustrators or photographers, researchers in industry or government, or in environmental law.

Equipment available at Barnard includes an RCA 4B transmission electron microscope and an ISI SX-40 scanning electron microscope with accessory equipment, photomicrographic and darkroom instruments, IBM microcomputers, a scintillation counter, an ultracentrifuge, an automated oxygen analyzer, a chemostat, and physiographs. The facilities include constant temperature rooms, darkrooms, an animal care facility, and a greenhouse. A Biology Club, originated and governed by students and sponsored by the department, presents seminars and film programs of interest.

Students are encouraged to do summer work in biological laboratories or field stations. Financial assistance for such work may be awarded to qualified students

Biological Sciences

through the Edna Henry Bennett Memorial Scholarship Fund, the Herbert Maule Richards Fund, or the Donald and Nancy Ritchie Fund. The department maintains a folder of summer courses and research stations, and information on available funds can be obtained from the department chairman. Support for participation or assistance in the research of the Barnard faculty is available at times from research grants and such programs as grants for Women in Science and Technology.

Biology BC 1101-BC 1102, or its equivalent, is a prerequisite for upper level courses in the department. Students who have passed the Advanced Placement examination with a grade of 4 or 5 and evidence of satisfactory laboratory experience will be exempted from one term of the general course and receive 3 points of credit. A laboratory notebook may be submitted to the department for a possible additional 1½ points. Students who receive Advanced Placement course credit may register and receive credit for one term of General Biology with laboratory. Advanced placement students who plan to major in Biology should consult with the department chairman before entering courses for which general Biology is a prerequisite and to discuss requirements for the major. Students may also take courses at Columbia University, including graduate courses; they should consult the Bulletin of the Graduate School of Arts and Sciences and their advisers before planning to take such courses.

REQUIREMENTS FOR THE MAJOR (for students in the class of 1990 and thereafter)

The curriculum for Biology majors is designed to satisfy the needs of students who plan to engage in postgraduate study of Biology or medically-oriented fields and to complement the general education mission of a liberal arts college. The minimum requirements for a major in Biology are listed below:

Introductory Biology. Students must complete a two semester course in General Biology, including laboratories (BC 1101 and BC 1102 or equivalent).

Three Core Lecture Courses. One lecture course must be selected from each of the following three pairs:

1. Molecular Biology (BC 3302) **or** Cells and Tissues (BC 3310)
2. Mammalian Physiology (BC 3360) **or** Plant Physiology (BC 3340)
3. General Ecology (BC 3370) **or** Population and Community Ecology (BC 3372)

Three Elective Lecture Courses. Students must take three additional lecture courses in Biology. Any biology lecture course can be chosen, including core courses not used to fulfill that requirement. Courses should reflect the diversity of the offerings. At least one course in genetics and one in organismal biology are recommended. Courses numbered at the 3200 level are particularly appropriate for sophomores who have completed General Biology; courses at the 3300 level are more advanced and may require additional prerequisites.

Three Elective Laboratories. Students must complete at least three laboratories beyond Introductory Biology; at least one of the three must be a 3300-level course. Laboratories may require a lecture course as a co-requisite or pre-requisite; such requirements are specified in the course descriptions below. A student may count a guided research project (BC 3591) as an elective laboratory in accordance with the guidelines listed below; however, only one term of guided research will receive credit toward the major. Biology laboratories at Barnard require a lab fee of \$35 per course. Appropriate biology laboratories at Columbia University may be used to satisfy the lab requirement as may those taken at other institutions, with permission of the department chair.

Senior Seminar or Individual Research with Seminar. Students must enroll in one section of the *Senior Seminar* (BC 3590) **or** complete a guided research project in the laboratory of a member of the Barnard Biology Department (BC 3591), including concurrent participation in the research seminar. If a student completes an individual research project in lieu of the senior seminar, she may not also use an individual research project to fulfill part of the laboratory requirement.

Chemistry Requirement. One year of Chemistry with laboratory, including one term of Organic Chemistry, is required.

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Participation in a special project, Biology BC 3591 or BC 3592, is highly recommended. These courses give the student an opportunity to conduct independent laboratory research. Both intradepartmental (BC 3591) and extradepartmental (BC 3592) projects require the approval of a faculty member in the department who serves as sponsor (intradepartmental projects) or as cosponsor (extradepartmental projects). All projects must involve planning, experimentation, and interpretation of results, and all require a formal report, written in journal style. Intradepartmental projects (BC 3591) require concurrent enrollment in the research seminar and may be used to fulfill the major requirement for a senior seminar. Alternatively, after completing a senior seminar, a student may count one intradepartmental research project as an elective laboratory. However, only one term of individual research will receive credit toward the major. Intradepartmental projects are graded by letter grade. Extradepartmental projects (BC 3592) receive only pass or fail grades; they do not fulfill any major requirements, but they do receive college credit.

The Graduate Record Examination is used as the major examination. The scores are also used, together with grade point average and faculty recommendations, to determine the recipients of departmental honors.

A year of chemistry with laboratory, including one term of organic chemistry, is required for the biology major (Chemistry BC 1601, *General Chemistry*; BC 3328 and BC 3230, *Organic Chemistry I*). Entering freshmen who plan to major in biology are encouraged to take these chemistry courses in addition to Biology BC 1101 and 1102 in their first year. Some upper level biology courses require a second term of organic chemistry (Chemistry BC 3231, *Organic Chemistry II*). Students interested in attending graduate or professional schools should take additional chemistry courses (Chemistry BC 3232, *Intermediate General Chemistry*; BC 3338, *Quantitative and Instrumental Techniques Laboratory*) and, in addition, one year each of calculus and physics; a course in statistics is also recommended. Graduate work generally requires a working knowledge of one or more foreign languages.

Students interested in the health sciences should register with the Pre-Professional Office in their freshman or sophomore year and must take the MCAT exam in their junior year.

REQUIREMENTS FOR THE MINOR

A minor in Biology must have one year of general biology (two terms with laboratory), three additional lecture courses, and two additional laboratories. Biochemistry, Chemistry, Physics, and Psychology majors need take only one advanced laboratory instead of two.

COURSES OF INSTRUCTION

BIO BC 1101x-1102y. General Biology.

Nature, development, and implications of biological knowledge; molecular basis of life; structure and function of cells; energy relations; molecular, Mendelian, and population genetics; development, anatomy and physiology of organisms; evolutionary theory and systematics; physiological and population ecology; animal behavior; dynamics of ecosystems; human biology.—1: E. Hager. 2: P. Hertz.

Enrollment in laboratory sections limited to sixteen students per section.

4½ points.

Lecture M W F 9:00

*Laboratory Tu or Th 9:00-11:50, F 10:00-12:50,
M Tu W or Th 1:10-4:00 or 2:10-5:00.*

BIO BC 3200x. Genetics (formerly BC 3105).

Genetics of eukaryotes, prokaryotes and viruses, with special emphasis on human genetics; segregation; recombination, map-

ping, and the measurement of linkage; cytogenetics; population genetics; molecular genetics.—N. Chu.

Prerequisite: BC 1101-1102 or the equivalent. Students interested in laboratory see BC 3201.

3 points. M W F 11:00, plus one hour required recitation to be arranged.

BIO BC 3201y. Laboratory in Genetics (formerly BC 3114).

Exercises in the use of *Drosophila*, *Neurospora*, bacteria and bacteriophages to illustrate basic genetic principles and to investigate population genetics, linkage and recombination, and biochemical genetics; techniques used in human genetics and cytogenetics.—F. Warburton.

Prerequisite: BC 3200 or the equivalent.

Enrollment limited to 16 students per section.

2 points. Th or F 1:10-5:00.

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BIO BC 3240y. Plant Biology (formerly BC 3103).

Evolutionary, morphological, physiological, and ecological aspects of plants, with some attention to their historical, esthetic, and economic importance.—N. Chu.

Prerequisite: BC 1101-1102 or the equivalent.
3 points. Tu Th 9:10-10:25.

BIO BC 3241y. Laboratory in Plant Biology (formerly part of BC 3103).

Studies of the structure and evolution of green plants. A survey of major groups from the aquatic forms, the algae, to the most complex terrestrial plants, the angiosperms, with emphasis on the relation of form to function.—N. Chu.

Prerequisite or corequisite: BC 3240.
Enrollment limited to 24 students per section.
2 points. Tu or W 1:10-5:00.

BIO BC 3250y. Invertebrate Zoology (formerly BC 3107).

The biology of invertebrate animals; comparative structure and physiology of the cells, tissues, and organs of invertebrates; the development, behavior and evolution of these animals, stressing their adaptations to marine, freshwater, and terrestrial habitats.—P. Dudley.

Prerequisite: BC 1101-1102 or the equivalent.
Alternate years. Offered in 1988-89.
3 points. M W F 11:00.

BIO BC 3251y. Laboratory in Invertebrate Zoology (formerly part of BC 3107).

Studies on the adaptive biology of invertebrate animals. A survey of major and minor phyla of invertebrates, including observations and other studies of living animals. One-third of the course will be devoted to an independent project involving electron microscopy, anatomy, physiology, behavior, or ecology.—P. Dudley.

Prerequisite or corequisite: BC 1101-1102 or the equivalent. BC 3250 is recommended as a prerequisite or corequisite, but is not required.
Enrollment limited to 20 students.
Alternate years. Offered in 1988-89.
2 points. W 1:10-5:00.

BIO BC 3260x. Vertebrate Zoology (formerly BC 3115).

A systematic survey of the Phylum Chordata: fossil history, biogeography, systematics, natural history, body architecture, energetics, locomotion, feeding and behavior—P. Hertz.

Prerequisite: BC 1101-1102 or the equivalent.
Alternate years. Offered in 1989-90.
3 points.

BIO BC 3270x. Biogeography (formerly BC 3113).

Plant and animal distribution; the effects of biological introductions via human activities, the major vegetation zones, mechanisms of dispersal, and utilization of the biota including the effects of exploitation on species and habitats.—Instructor to be announced.

Prerequisite: BC 1101-BC 1102 or the equivalent (or one year of any other laboratory science).
Alternate years. Offered in 1989-90.
3 points.

BIO BC 3280y. Animal Behavior (formerly BC 3122).

Introduction to animal behavior; physiological bases of behavior (sensory systems, neurophysiology of behavior, appetitive and reproductive behavior), traditional ethological approaches to behavior (communication, dyadic behavior, territoriality, dominance and aggression) and evolution of behavior (behavior genetics, ecological correlates, sociobiology).—J. Chase.

Prerequisite: one year of biology or one year of psychology.
3 points. M W F 10:00.

BIO BC 3302x. Molecular Biology (formerly BC 3132).

An introduction to molecular biology. Topics include: genome organization, DNA replication, regulation of RNA synthesis, protein synthesis, macromolecular cell biology, and control of gene expression in development.—J. Mohler.

Prerequisites: BC 1101-1102 or the equivalent and a year of chemistry, including one term of organic chemistry with laboratory.
3 points. M W F 9:00.

BIO BC 3303y. Laboratory in Molecular Biology.

An introduction to the use of molecular techniques to answer questions about subcellular biological phenomena. Techniques include isolation of genomic and plasmid DNAs, restriction enzyme analysis, DNA and protein electrophoresis, bacterial transformation, and plasmid subcloning.—J. Mohler.

Prerequisite: BC 3302 or consent of the instructor.
Alternate years. Offered in 1988-89.
3 points. M 1:10-5:00, required recitation M 12:00.

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BIO BC 3305y. Project Laboratory in Molecular Biology (formerly BC 3142).

A project laboratory in molecular biology of *Drosophila*. Experiments will include isolation of phage, plasmid and genomic DNA; screening of DNA libraries; restriction mapping, Southern analysis and characterization of RNA transcripts. Project will characterize a particular unknown *Drosophila* sequence and RNA derived *in vivo* from that DNA.—J. Mohler.

Prerequisite: BC 3302 or permission of the instructor; Chemistry BC 3355x is recommended.

Enrollment limited to 12 students.

Alternate years. Offered in 1989-90.

5 points.

BIO BC 3310x. Cells and Tissues (formerly BC 3128).

Structural, molecular and physiological aspects of cells and tissues in vertebrate animals; light microscopic and electron microscopic studies of the structure of cell organelles and tissues; modern concepts of function.—P. Dudley.

Prerequisites: BC1101-1102 or the equivalent and one advanced biology course. A year of chemistry, including organic chemistry is required.

3 points. Tu Th 10:35-11:50.

BIO BC 3311x. Laboratory in Cell and Tissue Biology (formerly BC 3130).

Correlated light microscopic and electron microscopic analyses of the structure of tissues and organs of vertebrate animals; demonstrations and practice in histochemical, light microscopic and electron microscopic techniques.—P. Dudley.

Prerequisite or corequisite: BC 3310 or the equivalent.

Enrollment limited to 16 students per section.

Alternate years. Offered in 1988-89.

3 points. Tu 1:10-5:00 and 2 hours to be arranged.

BIO BC 3320x. Microbiology (formerly BC 3110).

Study of prokaryotic and selected eukaryotic microorganisms with regard to cell structure, physiology and metabolism; genetic mechanisms and inter-relationships in bacteria. Some aspects of applied microbiology will be considered: the role of microorganisms in natural processes; aspects of pathogenicity and immunity to disease.—W. Corpe.

Prerequisites: A year of college biology and general chemistry.

3 points. M W F 9:00.

BIO BC 3321x. Laboratory in Microbiology (formerly part of BC 3110).

This course provides experience in the isolation, cultivation, and preservation of pure cultures of microorganisms from natural populations. Methods used for study of cell structure, growth, physiology, and genetics of bacteria will be followed by a small, independent project.—W. Corpe.

Prerequisite or corequisite: BC 3320.

Enrollment limited to 24 students.

3 points. M 2:00-4:00 and W 1:00-3:00, required recitation M 1:00-2:00.

BIO BC 3340y. Plant Physiology (formerly BC 3134).

Processes of metabolism, nutrition, growth, and development of green plants; photosynthesis, respiration, nitrogen and intermediate metabolism, water and solute uptake and transfer, translocation, plant growth regulators, tropisms and nasties, photoperiodism, vernalization, dormancy senescence and death.—P. Ammirato.

Prerequisites: BC 1101-1102 or the equivalent, and one term of organic chemistry.

Alternate years. Offered in 1989-90.

3 points.

BIO BC 3341y. Laboratory in Plant Physiology (formerly BC 3136).

Determination of water potential and transpiration rates. Solute uptake and mineral deficiency studies. The Hill reaction. CO₂ compensation points and respiration rates. Extraction, separation and identification of amino acids, nucleic acids and plant hormones. Bioassay procedures with whole plants and cell cultures. Studies of phytochrome controlled germination and photomorphogenesis.—P. Ammirato.

Prerequisite or corequisite: BC 3340.

Enrollment limited to 16 students.

Alternate years. Offered in 1989-90.

3 points.

BIO BC 3342y. Plant Development (formerly BC 3124).

Processes of growth, differentiation and organization in plants; major morphogenetic events in the transition from zygote to flowering plant; hormonal and environmental effects and mechanisms of action.—P. Ammirato.

Prerequisites: BC 1101-1102 or the equivalent, and one semester of organic chemistry.

Alternate years. Offered in 1990-91.

3 points.

Biological Sciences

BIO BC 3343y. Laboratory in Plant Development (formerly part of BC 3124).

An experimental approach to the patterns, processes, and control mechanisms of plant development. Meristems and cell differentiation; embryogenesis and organogenesis; responses to hormones and environmental variables. Work with whole plant, organ, and cell cultures.—P. Ammirato.

Prerequisite or corequisite: BC 3342.

Enrollment limited to 16 students.

Alternate years. Offered in 1990-91.

3 points.

BIO BC 3350x. Vertebrate Embryology (formerly BC 3109).

Anatomy, morphogenesis, and differentiation of embryos of vertebrate animals; gametogenesis, fertilization, cleavage, gastrulation, and the morphogenetic and physiological events which occur during embryonic histogenesis and organogenesis.—Instructor to be announced.

Prerequisite: BC 1101-1102 or the equivalent.

Not offered in 1988-89.

3 points.

BIO BC 3351x. Laboratory in Vertebrate Embryology (formerly part of BC 3109).

Comparative studies of the anatomy of vertebrate embryos and the experimental analysis of development.—Instructor to be announced.

Corequisite: BC 3350

Enrollment limited to 16 students per section.

Not offered in 1988-89.

3 points.

BIO BC 3352y. Animal Development.

An introduction to animal development stressing the mechanisms that control development processes. Topics include spermatogenesis, oogenesis, fertilization, cleavage, establishment of the body plan, cellular events in gastrulation and morphogenesis, and control of gene expression in development.—J. Mohler.

Prerequisite: BC 1101-1102 or the equivalent; one year of chemistry (including one semester of organic chemistry) is recommended.

Alternate years. Offered in 1988-89.

3 points. Tu Th 10:35-11:50.

BIO BC 3360x. Mammalian Physiology (formerly BC 3116).

Physiology of major organ systems; function and control of circulatory, respiratory, digestive, excretory, endocrine and nervous systems

in animals; emphasis on higher vertebrates and man.—J. Chase.

Prerequisites: Three semesters of biology and one semester of organic chemistry.

3 points. Tu Th 9:10-10:25.

BIO BC 3361x. Laboratory in Physiology (formerly BC 3118).

Physiographic recording of cardiac, respiratory and muscle function; small animal surgery; stereotaxic technique and histological confirmation of lesions. Additional laboratories in amphibian metamorphosis, enzyme kinetics, active transport, exercise physiology and renal function.—J. Chase.

Prerequisite or corequisite: BC 3360.

Enrollment limited to 12 students per section.

3 points. Th or F 1:10-5:00, required recitation Th or F 12:00.

BIO BC 3370y. General Ecology (formerly BC 3108).

Effects of selected physicochemical environmental factors on organisms in populations and communities; characteristics of major terrestrial and aquatic ecosystems; human influences on the environment.—P. Dudley.

Prerequisite: BC 1101-1102 or the equivalent. A course in general chemistry is recommended.

Alternate years. Offered in 1989-90.

3 points.

BIO BC 3372x. Population and Community Ecology (formerly BC 3119).

Introduction to evolutionary ecology; life history strategies, population growth, competition, predator-prey interactions, population regulation, species diversity, community organization, biogeography. Lectures integrate theory with empirical studies.—M. Weissburg.

Prerequisites: BC 1101-1102 and any additional Biology course. Calculus is recommended.

Alternate years. Offered in 1988-89.

3 points. Tu Th 10:35-11:50.

BIO BC 3373x. Laboratory in Ecology (formerly part of BC 3119).

The definition of ecological problems in experimentally tractable ways; the design of experiments and analysis of ecological data; class projects on population ecology; students conduct individual projects during last month of term.—M. Weissburg.

Prerequisite or corequisite: BC 3370 or BC 3372.

Alternate years. Offered in 1988-89.

Enrollment limited to 16 students.

3 points. Th 1:10-5:00, required recitation Th 12:00.

Biological Sciences

BIO BC 3380y. Evolution (formerly BC 3106).

Genetic and ecological mechanisms that adapt organisms to their environments and increase their diversity. Recent controversies including "creation science," punctuated equilibria, causes of mass extinctions, the neutral theory of molecular evolution, and sociobiology will be discussed.—F. Warburton.
Prerequisite: BC 1101-1102 or the equivalent.

Alternate years. Offered in 1989-90.

3 points.

BIO BC 3382y. Molecular Evolution.

Evolving genes and proteins. Modern concepts of mutation. Gene families produced by duplication; their concerted evolution by gene conversion. The modular structure of proteins; exon shuffling. Non-Darwinian evolution. Comparing macromolecular sequences to reconstruct phylogenies. Molecular evolutionary clocks. Selfish DNA. Endosymbiotic origin of eukaryotes. The origin of life.—F. Warburton.

Prerequisites: BC 1101-1102 or the equivalent and any additional course in biochemistry, molecular biology, genetics, or cell biology.

Alternate years. Offered in 1988-89.

3 points. Tu Th 10:35-11:50.

BIO BC 3384y. History of Biology (formerly BC 3126).

Growth of biological knowledge and ideas to the time of Darwin and Pasteur, and the paths leading to modern genetics, developmental biology, and evolutionary theory since then, in relation to concurrent developments in technology, medicine, and other sciences; religious, political and social influences on biological writings will be examined.—F. Warburton.

Prerequisites: BC 1101-1102 or the equivalent, and one advanced biology course.

Alternate years. Offered in 1989-90.

3 points.

BIO BC 3590x, y. Senior Seminars in Biology.

Required of all majors who do not select Guided Research (BIO BC 3591) to fulfill the senior requirement, these seminars allow students to explore the primary literature in specific subdisciplines of the Biological Sciences in greater depth than can be achieved in a lecture course. Attention will be focused on both theoretical and empirical work. Seminar periods are devoted to oral reports and discussion of assigned readings and student reports. Students will write one extensive literature review of a topic related to the central theme of the seminar section.

Not offered in 1988-89.

4 points.

I. Microbial Ecology.

—W.A. Corpe.

II. Human Genetics.

—F.E. Warburton.

III. Plant Biotechnology.

—P.V. Ammirato.

IV. Sociobiology.

—J. Chase.

V. Evolutionary Ecology.

—P.E. Hertz.

VI. Molecular Development and Genetics.

—J. Mohler.

BIO BC 3591x, y. Guided Research in Biology.

Independent research in the department to suit the needs of the individual student in consultation with faculty sponsor. Participation in department research seminar required. Guided Research—Staff; Research Seminar—P. Dudley.

Prerequisites: Three semesters of college biology and permission of a faculty sponsor.

4 points. Hours for research and seminar to be arranged.

BIO BC 3592x, y. External Research in Biology.

Research projects conducted outside the department developed in consultation with a faculty member who serves as cosponsor.—Staff.

Prerequisites: Three semesters of college biology and permission of a faculty cosponsor.

4 points. Hours to be arranged. NOTE: BC 3592 does not receive credit toward the biology major.

BIO BC 3593x-3594y. Research and Seminar in Biopsychology.

Independent research under faculty supervision culminating in a research paper and oral presentation. Throughout the year, weekly seminars will be used to discuss research approaches, methodological difficulties, and data analysis.—Staff.

Prerequisites: Six of the required courses for the biopsychology major.

4 points. Hours to be arranged.

BIO W 3002y. Introduction to Animal Structure and Function.

W. Bock.

Prerequisites: One year each of biology and physics.

6 points.

Lecture M W F 9:00.

Laboratory M Tu W 1:10-5:00 or M W 6:10-10:00.

(Two 4-hour laboratories required.)

Biological Sciences

BIO W 3005x. Central Nervous System Neurobiology.

D.B. Kelley.

Prerequisites: One year each of biology and chemistry.

Not offered in 1988-89.

3 points.

BIO C 3006y. Project Laboratory in Neurophysiology and Neuroanatomy.

E. Macagno and S. DeRiemer.

Prerequisite or corequisite: Biology W 3033 or G 4004 and instructor's permission.

5 points. Lab Sec 1: Tu 1:10-6:00; Lab Sec 2: Th 1:10-6:00. Additional hours to be arranged.

BIO W 3036y. Applications of Biotechnology.

J. Kurjan.

Prerequisites: Solid background in genetics and the instructor's permission.

2 points. M 2:10-4:00.

BIO C 3046y. Project Laboratory in Eucaryotic Gene Expression.

J. Manley and D. Robins.

Prerequisites: One year of biology and the instructor's permission.

5 points. Tu and Th 1:10-5:00 and additional hours to be arranged.

BIO C 3052x. Project Laboratory in Molecular Genetics.

C. Squires.

Prerequisite: One year of introductory biology and the instructor's permission.

5 points. Tu and Th 1:10-5:00 and additional hours to be arranged.

BIO C 3064y. Molecular Genetics.

G. Zubay.

Prerequisite: C 1005 or the equivalent.

4 points. Tu Th 10:35-11:50.

Recitation Tu or Th 12:00.

BIO W 3073x. Cellular and Molecular Immunology.

L. Eckhardt.

Prerequisite: C 1005 or C 3032.

3 points. Tu Th 10:35-11:50.

Biology-Chemistry BCH C 3501x.

Biochemistry I: Structure and Metabolism.

T. Melese and A. Tzagoloff.

Prerequisites: C 1005 and one year of organic chemistry.

4 points. M W F 10:00, plus one hour recitation to be arranged.

Biology-Chemistry BCH C 3512y.

Biochemistry II: Molecular Biology.

C. Prives and D. Robins.

Prerequisites: C 1005 and one year of organic chemistry. Strongly recommended but not required: C 3501.

3 points. Tu Th 9:10-10:25.

Note: The following courses at Columbia College substantially overlap Barnard Biology offerings. They may be substituted for Barnard courses with the permission of the Barnard department chairman: BIO W 3022y, *Developmental Biology* (S. Mount); C 3032x, *Introduction to Genetics* (M. Chalfie); W 3033y, *Animal Physiology* (E. Macagno); W 3040x, *Laboratory in Cell and Developmental Biology* (J. Cino); W 3041y, *Cell Biology* (E. Holtzman); C 3055x, *Project Laboratory in the Molecular Genetics of Development* (M. Levine); W 3086y, *Plants, Environment, and Human Society* (A. Mancinelli); W 3094y, *The Biosphere* (A. Mancinelli); W 3208x, *Introduction to Organismic and Evolutionary Biology of Animals* (W. Bock).

Biopsychology

Advisers: Julia Chase (Biological Sciences), Christina L. Williams (Psychology).

The program in Biopsychology is jointly administered by the departments of Biological Sciences and Psychology. A major in Biopsychology aims to provide a strong background in the behavioral sciences for students who plan to pursue a Ph.D. in Biopsychology or Psychobiology and for whom research training is of prime concern. Students electing this track are exposed to basic courses in Biology and Psychology and advanced courses necessary for the study of behavior. All students engage in two semesters of independent research in the senior year.

The major examination consists of the Graduate Record Examination in either Psychology or Biology.

It should be noted that students may also arrange interdisciplinary programs by electing a major in either Psychology or Biological Sciences and a minor in the other discipline, or by planning a double major. There is no minor in Biopsychology.

REQUIREMENTS FOR THE BIOPSYCHOLOGY MAJOR

Psychology BC 1001	<i>Introduction to Psychology</i>
Biology BC 1101-1102	<i>General Biology with Laboratories</i>
Psychology BC 1609	<i>Statistics</i>
Psychology BC 1105	<i>Psychology of Learning with Laboratory</i>
Biology BC 3200 and BC 3201	<i>Introduction to Genetics with Laboratory</i>
Biology BC 3280	<i>Animal Behavior</i>
Psychology BC 1117 or BC 1119	<i>Physiological Psychology*</i>
Biology BC 3360/3361	<i>Mammalian Physiology*</i>

*One of these physiology courses must be taken with a laboratory.

Psychology BC 3593-BC 3594	
or	<i>Research and Seminar in Biopsychology</i>
Biology BC 3593-BC 3594	

Two advanced courses selected from *different* categories below:

I.	Biology W 3005	<i>Central Nervous System Neurobiology</i>
	Biology C 3006	<i>Project Lab in Neurophysiology and Neuroanatomy</i>
	Biology G 4004	<i>Biology of Nerve Cells</i>
	Biology G 4008	<i>Seminar on the Development of the Nervous System</i>
II.	Psychology BC 3154	<i>Hormones and Reproductive Behavior</i>
	Psychology BC 3169	<i>Developmental Psychobiology</i>
	Psychology BC 3376	<i>Infant Development</i>
III.	Biology BC 3370	<i>General Ecology</i>
	Biology BC 3372	<i>Population and Community Ecology</i>
IV.	Psychology BC 3164	<i>Perception and Language</i>
	Anthropology W 3203	<i>Primate Behavior</i>
	Psychology BC 3374	<i>Theories of Learning</i>
V.	Biochemistry C 3501	<i>Biochemistry</i>
	Biochemistry G 4021	<i>General Biochemistry</i>
	Biology W 3041	<i>Cell Biology</i>
	Biology BC 3310	<i>Cells and Tissues</i>

Cognate Courses

The following chemistry courses are required: BC 1601, BC 3328, and BC 3230. Students are encouraged to take additional courses in chemistry, physics, and math if they intend to apply to medical or graduate schools.

Chemistry

Office: 607A Altschul Hall

Telephone: 280-8460

Professors

Sally Chapman (Chairman), Bernice G. Segal

Associate Professor

Leslie Lessinger

Assistant Professors

Marco Pagnotta, Peter Shenkin, Shelley Weinstock

Lecturers

James Carter, Edith Farb

Associates

Barbara Goodstein, Olympia Jebejian, Ettie Rachleff, Vasiliki Vlahopoulos

Chemistry is the study of the nature of substances and their transformations. In a three-year sequence of core courses, a chemistry or biochemistry major gains familiarity with the basic areas of the field: inorganic, organic, physical, and analytical chemistry. In addition, she acquires sufficient skill in the laboratory so that she is prepared for independent research.

Students who have taken an Advanced Placement course in secondary school may be given advanced placement and credit with scores of 4 or 5, if they present evidence of satisfactory laboratory experience.

The laboratories of the department are modern and well-equipped both for course work and for independent projects. Students may undertake independent research projects under the guidance of members of the department during the academic year or the summer; some student work has been published in chemical journals. Opportunities are also available for undertaking research projects with members of the staff of one of the many medical schools or research institutions in New York City, as well as with the Columbia faculty.

Students wishing to fulfill the minimum two-year chemistry requirement for medical school should take Chemistry BC 1601, *General Chemistry*; Chemistry BC 3328, BC 3230, and BC 3231, *Organic Chemistry I and II* with laboratory; Chemistry BC 3232, *Intermediate General Chemistry*; and Chemistry BC 3338, *Quantitative and Instrumental Techniques Laboratory*.

Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent.

The laboratory fee covers the cost of non-returnable items, laboratory manuals, chemicals, and other consumable supplies, as well as reasonable breakage. In addition, students may be charged for excessive breakage.

REQUIREMENTS FOR THE MAJOR

Two majors are offered by the department, in chemistry and biochemistry. A major examination is required for both chemistry and biochemistry; there is no senior essay required for either.

Chemistry

A student who is interested in chemistry should consult any member of the department during her freshman year. In the first year she should take Chemistry BC 1601, BC 3328, and BC 3230, and start or continue the study of calculus. It is then possible for her to fulfill the basic requirements for the major in three years and to take advanced courses in the senior year. After completing the undergraduate curriculum, students are encouraged to take graduate courses in chemistry or biochemistry at Columbia, and to undertake independent research projects.

Courses required for the major are:

Chemistry BC 1601 *General Chemistry*

Chemistry BC 3328,

BC 3230, BC 3231

Organic Chemistry I with laboratory and II

Chemistry

Chemistry BC 3335	<i>Modern Techniques of Organic Chemistry Laboratory</i>
Chemistry BC 3236	<i>Introductory Thermodynamics and Kinetics</i>
Chemistry BC 3340	<i>Quantitative and Instrumental Techniques Laboratory</i>
Chemistry BC 3261	<i>Atomic and Molecular Structure</i>
Chemistry BC 3264	<i>Applied and Statistical Thermodynamics</i>
Chemistry BC 3365, BC 3368	<i>Advanced Chemistry Laboratory</i>
Physics V 1103-V 1104 or Physics C 1406-C 1407 and C 1906-C 1907	<i>General Physics with Laboratory</i>
Mathematics	<i>Calculus I, II, and III in any sequence (A, B, or Honors)</i>

Recommended: *Calculus IV* and an advanced inorganic chemistry course.

A list of major requirements, several possible course sequences, and information about the major examination may be obtained from any member of the department.

Students interested in taking Chemistry BC 3599 should consult with individual faculty members about the research problems currently being investigated.

Biochemistry

Courses required for the major are:

Chemistry BC 1601, BC 3328, BC 3230, BC 3231,
BC 3333 or BC 3335, BC 3338 or BC 3340
and BC 3355, Biochemistry Laboratory

Chemistry BC 3236, BC 3261, and BC 3264 or
BC 3232, V 3059, and V 3060

Biology BC 1101, BC 1102
Physics V 1103-V 1104

General Biology
*General Physics with
Laboratory*

Calculus I and II

Biology-Chemistry C 3501 and C 3512

Biochemistry I and II

An elective 3 point course from a list of approved Biology and Chemistry courses.

A list of major requirements, including the courses from which the advanced laboratory and lecture electives are to be selected, and information about the major examination may be obtained from any member of the department.

REQUIREMENTS FOR THE MINOR

Courses required for the Chemistry minor are: Chemistry BC 1601, BC 3328, BC 3230, BC 3231, BC 3333, BC 3338, plus one of the following three: Chemistry BC 3232, BC 3236, or V 3059.

There is no minor in Biochemistry.

COURSES OF INSTRUCTION

CHE BC 1601x. General Chemistry I.

Particulate nature of matter in various states; chemical transformations of matter, especially of ionic substances; properties of gases and kinetic theory, solutions, equilibrium, acid-base, precipitation and oxidation-reduction reactions, and thermochemistry; laboratory experience with both qualitative and quantitative techniques.—S. Chapman, L. Lessinger, with B. Goodstein, O. Jebejian and associates.

Prerequisite: Algebra (Math SAT score of 550 for freshmen).

Total enrollment in laboratory limited to 160 students.

5 points. Lecture Tu Th 9:10-10:25.

Recitation one afternoon M T W Th or F 1:10-2:00.

Laboratory same afternoon as recitation M Tu W Th or F 2:00-5:00.

Lecture and lab must be taken together unless permission of the instructor is given at the time of program filing. Laboratory fee \$28.

Chemistry

CHE BC 1602y. General Chemistry II.

Kinetics and mechanisms of chemical reactions; nuclear chemistry and radioactivity; atomic and molecular structure; chemistry of selected topics in environmental chemistry and biochemistry.—P. Shenkin and staff.

Prerequisite: BC 1601 or permission of the instructor. Students who have completed BC 3230 or its equivalent may not subsequently receive credit toward the degree for BC 1602. Primarily for majors in fields other than science. 5 points. Lecture M W F 10:00.

Recitation and laboratory one afternoon Tu or W 1:10-5:00. Laboratory fee \$28.

CHE BC 1702y. General Chemistry II Laboratory.

Laboratory portion of Chemistry BC 1602.—Instructor to be announced.

Prerequisite: General Chemistry I with laboratory. *Corequisite:* General Chemistry II lectures and permission of the instructor. 1½ points.

Recitation and laboratory one afternoon Tu or W 1:10-5:00. Laboratory fee \$28.

CHE BC 3328y. Introductory Organic Chemistry Laboratory.

Basic techniques of experimental organic chemistry. Principles and methods of separation, purification, and characterization of organic compounds and techniques of compound preparation.—M. Pagnotta with J. Carter, B. Goodstein and associates.

Prerequisite: BC 1601 or equivalent with grade of C- or better, or BC 1601 and BC 1602 or equivalent. *Corequisite:* BC 3230 or equivalent. Enrollment limited to 120. 2½ points.

Lecture one afternoon M Tu W Th or F 1:00-1:50.

Laboratory same afternoon as lecture M Tu W Th or F 1:50-5:30. Laboratory fee \$35.

CHE BC 3230y. Organic Chemistry I.

Atomic and molecular structure; an introduction to aliphatic and aromatic chemistry with emphasis on modern theories; basic organic reaction mechanisms, stereochemistry and spectroscopy.—M. Pagnotta.

Prerequisite: BC 1601 or equivalent with a grade of C- or better, or BC 1601 and BC 1602 or equivalent. Credit will not be given for any course below the 3000 level after completing Chemistry BC 3230 or its equivalent. 3 points. Lecture Tu Th 9:10-10:25.

Problem section F 12:00.

CHE BC 3231x. Organic Chemistry II.

Continued treatment of the topics of Organic Chemistry I with extensions and an introduc-

tion to biological compounds and biomacromolecules.—S. Weinstock.

Prerequisite: BC 3230. Required for biology majors and premedical students.

3 points. M W F 10:00.

Problem section Tu 12:00.

CHE BC 3232y. Intermediate General Chemistry.

Selected aspects of general chemistry, primarily for premedical and biological science students without the background for Chemistry BC 3236 or V 3059. Thermochemistry, chemical equilibrium, chemical kinetics, complex ions and coordination compounds, and nuclear chemistry, with applications to analytical chemistry and biochemistry.—B. G. Segal.

Prerequisites: BC 1601 and Organic Chemistry I. BC 3230 may be taken as a corequisite with permission of the instructor.

Optional parallel laboratory work: one afternoon under BC 3338.

Course C 1404 is not an acceptable equivalent for BC 3232.

3 points. M W F 10:00.

CHE BC 3333x. Modern Techniques of Organic Chemistry Laboratory.

Introduction to qualitative and quantitative organic analysis and to advanced techniques, emphasizing instrumental and chromatographic methods.—M. Pagnotta.

Prerequisites: BC 3328 and BC 3230. *Corequisite:* BC 3231. Suitable for premedical and biological science students, but not required by all medical schools. Required of biochemistry majors. Enrollment limited to 24 students.

3 points. Lecture Th 1:10.

Laboratory one afternoon Tu 1:10-5:30 or F 1:10-5:30. Laboratory fee \$35.

CHE BC 3335x. Modern Techniques of Organic Chemistry Laboratory.

Identical with BC 3333, but with a library problem, a short project and additional preparative experiments.—M. Pagnotta.

Prerequisites: BC 3328 and BC 3230. *Corequisite:* BC 3231. Chemistry majors must take this course, but it is not required by medical schools. Enrollment limited to 15 students.

5 points. Lecture Th 1:10.

Laboratory two afternoons Tu 1:10-5:30, Th 2:10-6:00.

Laboratory fee \$35.

CHE BC 3236y. Introductory Thermodynamics and Kinetics.

Introduction to the laws of thermodynamics and chemical kinetics.—B. Segal.

Chemistry

Prerequisites: BC 3230, Calculus I and II, and preceding or parallel Physics V 1103-V 1104 and Calculus III. Recommended parallel: BC 3338 or BC 3340.

4 points.

Lecture T Th 9:10-10:25 and F 12:00.

CHE BC 3338y. Quantitative and Instrumental Techniques Laboratory.

Quantitative techniques in volumetric analysis, radiochemistry, spectrophotometry, and pH measurement. Biochemical applications are included and some experience with computer programming is provided.—L. Lessinger and O. Jebejian.

Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3236.

Suitable for premedical and biological science students. Required of biochemistry majors.

3 points. Lecture Tu 1:10.

Laboratory Tu 2:10--6:00 or Th 1:10-5:00.

Laboratory fee \$35.

CHE BC 3340y. Quantitative and Instrumental Techniques Laboratory.

Identical with BC 3338 except that a greater variety of experiments is offered, with more individual options.—L. Lessinger and O. Jebejian.

Corequisite for students not majoring in chemistry or biochemistry: BC 3232 or BC 3236.

Required of chemistry majors and suitable also for biochemistry majors and for premedical and biological science students.

5 points. Lecture Tu 1:10.

Laboratory two afternoons Tu 2:10-6:00 and Th 1:10-5:00.

Laboratory fee \$35.

CHE V 3059x. Introductory Physical Chemistry I.

Thermodynamics, physical chemistry of solutions, chemical equilibria including acid-base equilibria, electrochemistry.—P. Shenkin.

Prerequisites: Organic Chemistry II, Calculus I and II, and Physics V 1103-V 1104, or the equivalents. Intended for majors in biochemistry and biology, and premedical students.

3 points.

Lecture M W F 11:00.

Problem Section W 12:00.

CHE V 3060y. Introductory Physical Chemistry II.

Kinetic theory, chemical kinetics, transport properties, macromolecules, quantum chemistry, and spectroscopy with applications to biological systems.—Instructor to be announced.

Prerequisite: V 3059 or permission of the instructor.

3 points. M W F 11:00.

CHE BC 3355x. Biochemistry Laboratory Techniques.

Experience with fundamental techniques used in the isolation, characterization and study of biomolecules. Techniques employed include homogenization, centrifugation, solvent extraction, salt fractionation, chromatography, electrophoresis, chemical and enzymic assays, enzyme kinetics and simple genetic cell transformation methods.—S. Weinstock and V. Vlahopoulos.

Prerequisites: BC 3231, or one year of Organic Chemistry, Biology BC 1101, BC 1102 or equivalent, and a total of four semesters of chemistry and biology laboratory. *Corequisite:* Biology-Chemistry C 3501 or Biochemistry G 4021.

Enrollment limited to 24 students.

5 points. Lecture M 12:00-1:00.

Laboratory Tu 1:10-5:00 and Th 1:10-5:00.

Laboratory fee \$45.

CHE BC 3261x. Atomic and Molecular Structure.

Introduction to quantum chemistry and spectroscopy.—B. Segal.

Prerequisites: BC 3236, Physics V 1103-V 1104, and Calculus III. Calculus IV is recommended.

4 points. Lecture M W F 11:00, Th 12:00.

CHE BC 3264y. Applied and Statistical Thermodynamics.

Thermodynamics of real gases and solutions; phase equilibria; electrochemistry; kinetic theory of gases; statistical thermodynamics, partition functions, equilibrium.—P. Shenkin.

Prerequisites: BC 3230, BC 3236, Physics V 1103-V 1104, and Calculus III, BC 3261 and Calculus IV are recommended.

4 points. Lecture M W F 11:00, M 12:00.

CHE BC 3365x. Advanced Chemistry Laboratory.

Experiments in kinetics, thermodynamics, and electrochemistry using instrumental methods; preparation and characterization of inorganic compounds; some experience with computer programming. Chemistry majors must take both BC 3365x and BC 3368y, or BC 3370y. Suitable for biochemistry majors also.—P. Shenkin.

Prerequisites: BC 3236 or V 3059, and BC 3338 or equivalent. BC 3333 or BC 3335 is recommended.

3 points. Lecture Th 12:00.

Chemistry

Laboratory W 1:10-5:00, and if enrollment requires, M 1:10-5:00.
Laboratory fee \$35.

CHE BC 3368y. Advanced Chemistry Laboratory.

Experiments in various types of spectroscopy.
—S. Chapman and E. Farb.
Prerequisites identical with BC 3365.
3 points. Lecture Tu 12:00.
Laboratory W 1:10-5:00.

CHE C 3071y. Introduction to Inorganic Chemistry.

Principles governing the structure and reactivity of inorganic compounds surveyed from experimental and theoretical viewpoints. Topics include inorganic solids, aqueous and nonaqueous solutions, the chemistry of selected main group elements, transition metal chemistry, metal clusters, metal carbonyls, and organometallic chemistry.—J. Barton.
Prerequisite: Organic Chemistry II.
3 points. M W F 9:00.

CHE BC 3598x. CHE BC 3598y. External Problems in Chemistry.

Advanced individual laboratory projects at other institutions for students who have completed the major requirements.—Staff.
Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. For some projects, BC 3370 is also required. Mandatory pass/fail grading.
4 points.

CHE BC 3599x, CHE BC 3599y. Problems in Chemistry.

Advanced individual laboratory projects for students who have completed the major requirements.—Staff.
Prerequisites: Completion of laboratory courses BC 3333 and BC 3338. For some projects, BC 3370 is also required. Permission of the instructor required.
4 points. Eight hours by arrangement.
Laboratory fee \$35.

SUMMER RESEARCH

There are available a number of fellowships for summer research within the department. Individual members of the department should be consulted, early in the spring semester, about the availability of projects.

Attention is called to the following courses offered elsewhere in the University. All require at least four semesters of chemistry as prerequisites.

Biology-Chemistry BCH 3501x. Biochemistry I.
C. Levinthal and A. Tzagoloff.
4 points. M W F 10:00.

Biology-Chemistry BCH G 4170x. Biophysical Chemistry.
Instructor to be announced.
4½ points. M W F 10:00-10:50.

Biology-Chemistry BCH C 3512y. Biochemistry II.
C. Prives and D. Robins.
3 points. Tu Th 9:10.

Chemistry CHE G 4103x. Inorganic Chemistry.
Instructor to be announced.
4½ points. Tu Th 9:10.

Chemistry CHE G 4131x. Introductory Quantum Chemistry.
M. Vernon.
4½ points. M W F 12:00.

Chemistry CHE G 4147x. Advanced Organic Chemistry.
Staff.
4½ points. M W F 9:00.

Chemistry CHE G 4172y. Bio-Organic Topics.
Staff.
4½ points. M W F 11:00.

Chemistry CHE G 4221x. Quantum Chemistry I.
Staff.
4½ points. M W F 12:00.

Chemistry CHE G 4231y. Chemical Kinetics.
Staff.
4½ points. M W F 10:00-10:50.

Classics

Office: 215 Milbank Hall

Telephone: 280-2852, 8312

Professor

Helen H. Bacon¹

Associate Professors

Helene P. Foley (Chairman), Lydia H. Lenaghan¹

Visiting Assistant Professor

Sara Winter

Other officers of the University offering courses in Classics:

Professors

Roger S. Bagnall, Alan D. E. Cameron, James A. Coulter, Leonardo Tarán, James E. G. Zetzel.

Assistant Professors

Darice E. Birge, Peter Knox, J. Magee, Dirk Obbink, Mark J. Petrini, Laura M. Slatkin.

¹ Absent on leave, Autumn Term

The objectives of the department are to provide students with a knowledge of the language and an understanding of the literature and civilization of the ancient Greeks and Romans. The close cooperation of Barnard and Columbia in planning and implementing the curriculum offers students a wide range of specialties from which to construct a sound and coherent program of studies according to their individual interests. All members of the Barnard department are available as advisers and should be consulted as early as possible in the planning of a major program.

Students may fulfill the foreign language requirement in Greek by completing Greek V 1201 and V 1202, or in Latin by completing Latin V 1201 and V 1202, or by completing one semester of study above Greek V 1201 and V 1202 or Latin V 1201 and V 1202, or by passing an exemption examination with a sufficiently high grade. This examination tests the student's knowledge of grammar and her ability to translate written Greek or Latin.

The Classics Department is the beneficiary of the Matthew Alan Kramer Fund whose principal purpose is the support of the production of plays in Ancient Greek and Latin. In recent years students of the department have produced *Antigone*, *Medea*, *Alcestis*, *The Persians*, *The Eumenides*, *Cyclops*, *Electra*, and *Trojan Women* which have proved not only satisfying in themselves, but have provided an exciting and different learning experience for the participants.

Barnard College participates in the program of the Intercollegiate Center for Classical Studies in Rome. Majors in Classics or Ancient Studies are eligible to apply for admission to the program of the Rome Center for one or two semesters, preferably in the junior year. Courses taken at the Rome Center may be used in the major and, in some cases, may be used to satisfy distribution requirements. Barnard College is a Supporting Institution of the American School of Classical Studies at Athens and the American Academy in Rome, and certain privileges of those schools are open, without fee, to graduates of the College.

REQUIREMENTS FOR THE MAJOR IN GREEK, LATIN, AND GREEK AND LATIN

The major in Greek or Latin requires a minimum of eight courses above the elementary level.

In Greek, this would be fulfilled by taking

Greek W 4139

Greek W 4105-W 4106

and five others.

Elements of Greek Prose Style

History of Greek Literature

In Latin, this would be fulfilled by taking

Latin W 4139

Latin W 4105-W 4106

and five others.

Elements of Latin Prose Style

History of Latin Literature

Classics

In addition, two semesters of ancient history appropriate to the major are required. For one of these, however, a relevant course in ancient art, classical civilization or literature, ancient philosophy, or religion may be substituted.

Majors in Latin, especially those who have begun their study in high school, are strongly advised to take at least two semesters of Greek.

A student may elect to major in both Greek and Latin by completing the major requirements in one language and 5 courses above the elementary level in the other.

REQUIREMENTS FOR THE MINOR

The minor in Greek or Latin requires five courses above the elementary level.

FOR THE REQUIREMENTS FOR THE MAJOR IN ANCIENT STUDIES, SEE ANCIENT STUDIES.

COURSES OF INSTRUCTION

CLASSICS IN TRANSLATION

There are no prerequisites for the Classical Literature or Classical Civilization courses.

Classical Literature CLL V 3132x (formerly BC 1032x).

Classical Myth.

Survey of major myths from the ancient Near East to the advent of Christianity, with emphasis upon the content and treatment of myths in classical authors (Homer, Hesiod, Aeschylus, Euripides, Sophocles, Vergil, Livy, Ovid).—D. Birge.

3 points. Tu Th 2:40-3:55.

H

Art History-Classical Literature AHC V 3245x. Greek Mythology in Ancient Art and Literature.

Analytic and comparative survey of major Greek myths in terms of their application and representation in classical literature and art.

Not offered in 1988-89.

3 points.

Classical Literature CLL V 3123x. Greek Drama and Its Influences.

Evolution of various types of tragedy and comedy from the 5th century B.C. in Athens to the 1st century A.D. in Rome; relation of these forms to later European dramatic forms; theories of comedy and tragedy including those of Aristotle; the production of plays.—H. Foley.

3 points. M W F 11:00.

H

Classical Literature CLL V 3135y. The Ancient Novel.

The evolution of the Greek and Roman novel and its place within the literary canon; particular attention to principles of narrative and the ideological function of prose fiction. Petronius, Apuleius; Lucian, Heliodorus, Achilles Tatius, Longus; Acts of the Apostles, and saints' lives.

Not offered in 1988-89.

3 points.

H

Classical Literature CLL W 4300y. The Classical Tradition.

Social, political, intellectual, and religious contexts in which epic, lyric, tragic and comic poetry originally developed in Greece; Roman adaptations and their influence on modern poets.—M. Petrini.

3 points. Tu Th 6:10-7:25.

H

Classical Literature CLL MRS BC 3181y.

Autobiography: Augustine to Rousseau.

The theory and practice of autobiography as it develops out of the classical tradition from Late Antiquity through the Early Modern period. Augustine, *Confessions*; Dante, *Vita Nova*; Petrarch, *Familiars*; Montaigne, *Essays*; Rousseau, *Confessions*.

3 points. Not offered in 1988-89.

Classical Civilization CLC V 3158y.

Women in Antiquity.

Role of women in ancient Greek and Latin literature; portrayal of women in literature as compared with their actual social status; male and female in ancient Mediterranean cosmologies; readings from ancient epic, lyric, drama, history and historical documents, medical texts, oratory and philosophy as well as contemporary sociological and anthropological works which will help to analyze the origins of the Western attitude towards women.—H. Foley.

Not offered in 1988-89.

3 points.

H

Classical Civilization CLC V 3162x.

Ancient Law.

Greek and Hellenistic legal systems. Roman law until the time of Justinian; development of law, legal codes as an expression of the nature of society which produced them.—R. Bagnall.

3 points. Tu Th 9:10-10:25

Classics

Classical Civilization CLC V 3163x.

The Greek Historical Tradition.

Greek conceptions of how history is made; determining influences such as divine interference, individual human exploits, chance; analysis of epic, philosophical, and historical texts.

Not offered in 1988-89.

3 points.

Classical Civilization CLC V 3175x.

The World of Late Antiquity.

The social, economic and religious history of the Roman world from the second to the early seventh century A.D.—A. Cameron.

Not offered in 1988-89.

3 points.

Classical Civilization CLC V 3140x. The

Archaeology of the Later Greek Bronze Age.

The material culture of Mycenaean Greece and Crete, including architecture, painting, pottery and the Linear B tablets. The problem of the final collapse of Mycenaean Civilization, and the Dark Ages, which gave rise to the Homeric poems.

Not offered in 1988-89.

3 points.

Classical Civilization CLC V 3160y. The Age of Augustus.

An exploration of the interplay between literature and its context, political, social, and intellectual. Literary texts to be discussed will include Vergil, Horace, Livy, and Ovid. Topics to be considered (in addition to the works themselves) will include literary patronage and the status of the poet, the Augustan moral and religious revival, political propaganda, and political opposition.—J. Zetzel.

3 points. Tu Th 10:35-11:50.

Classical Civilization CLC V 3145y.

Cities and Sanctuaries in Ancient Greece.

The development, major elements, and noteworthy peculiarities of Greek cities and sanctuaries. Emphasis will be on individual monuments and the arrangement of sites and their political, social, and religious functions throughout the Greek world from the rise of city-states through the formation of the Roman provinces.—D. Birge.

3 points. Tu Th 2:40-3:55.

GREEK LANGUAGE AND LITERATURE

GRE V 1101x-V1102y.

Elementary Full-Year Course.

Grammar, composition, and reading. In Greek 1102 a dialogue of Plato, generally the *Apology*, will be read.—L. Slatkin.

1101 is prerequisite to 1102.

No credit is given for 1101 unless 1102 is completed.

4 points. M W F 11:00-12:15.

GRE V 1121x, y. Intensive Elementary Course.

This course is designed to cover all of Greek grammar and syntax in one semester in order to prepare the student to enter third semester Greek in the autumn.—x: D. Obbink, y: H. Foley.

4 points. M W F 9:10-10:25.

GRE V 1201x, y. Greek Literature:

Prose and Poetry.

Selections from Lysias and early elegiac and lyric poetry. There will be weekly assignments to review forms and syntax.—x: L. Taran, y: H. Bacon.

Prerequisite: V 1101-V 1102.

4 points. x: Tu Th 1:10-2:25, F 1:10-2:00, y: M W 1:10-2:25, F 1:10-2:00.

GRE V 1202y. Selections from Homer.

Detailed grammatical and literary study of several books of the *Iliad* or *Odyssey*, and introduction to the techniques of oral poetry, to the Homeric hexameter, and to the historical background of Homer.—x: D. Birge, y: Instructor to be announced.

Prerequisite: V 1101-V 1102 or permission of the instructor.

4 points. Tu Th 10:35-11:50, F 10:35-11:25. H

GRE V 1203x. New Testament.

Selections from the New Testament.—Instructor to be announced.

Prerequisite: V 1101-V 1102.

4 points. M W 10:35-11:50, F 10:35-11:25.

GRE V 1221y. Intensive Intermediate Greek.

Covers the content of Greek V 1201 and 1202 in one term. Readings from Lysias, early elegiac and lyric poetry, and the *Iliad*.—D. Birge.

Prerequisite: V 1101-V 1102, or V 1121, or the equivalent.

4 points. M W F 10:35-11:50.

GRE V 3305x. Tragedy.

Prerequisites: V 1201, 1202, or their equivalents.

Alternate years. Not offered in 1988-89.

3 points.

H

Classics

GRE V 3306y. Historians.

Prerequisites: V 1201, I202, or their equivalents.

Alternate years. Not offered in 1988-89.

3 points. H

GRE V 3307x. Comedy.

Prerequisites: V1201, I202 or their equivalents.

Alternate years. Not offered in 1988-89.

3 points. H

GRE V 3308x. Philosophy.

Selected portions of the *Politics* of Aristotle in Greek, and the whole of the *Politics* and selections from the *Ethics* in English. A study of the structure and argument, with particular emphasis on Aristotle's critique of Athenian democracy.—J. Coulter.

Prerequisites: V1201, I202, or their equivalents.

Alternate years.

3 points. Tu Th 1:10-2:25.

GRE V 3309x. Selections from Greek Literature, I.

Content of course changes each year; it may be taken in consecutive years.

Prerequisites: V1201, I202, or their equivalents.

Not offered in 1988-89.

3 points. H

GRE V 3310y. Selections from Greek Literature, II.

Content of course changes each year; it may be taken in consecutive years. Topic for 1988-89: Survey and analysis of archaic lyric poetry with attention to its origin and place in contemporary society.—L. Slatkin

Prerequisites: V 1201, I202, or their equivalents.

3 points. Tu Th 10:35-11:50. H

GRE V 3997x, GRE V 3997y. Directed Reading.

To be tested by a series of short papers, one long paper, or an oral or written examination.—Staff.

Permission of the chairman of the department required.

3 points. Hours to be arranged.

GRE V 3998x, GRE V 3998y. Supervised Research in Greek Literature.

Program of research in Greek literature, with the composition of a paper embodying results.—Staff.

Permission of the chairman of the department is required.

3 points. Hours to be arranged.

GRE W 4009y. Selections from Greek Literature: Prose.

Content of course changes each year; it may

be taken in consecutive years. Topic for 1988-89: A close study of Demosthenes, *On the Crown*, including the historical background.—L. Tarán.

Prerequisites: V 1201, I202, or their equivalents.

3 points. Tu Th 1:10-2:25. H

GRE W 4010x. Selections from Greek Literature: Poetry.

Content of course changes each year; it may be taken in consecutive years. Topic for 1988-89: Homer, *Odyssey*.—L. Slatkin.

Prerequisites: V1201, I202, or their equivalents.

3 points. M W 2:40-3:55. H

GRE W 4106x-GRE 4105y. History of Greek Literature.

Lectures based on extensive readings in Greek literature from Homer to the fourth century A.D.—D. Obbink.

Prerequisite: At least two terms of Greek beyond V 1201, V 1202.

4 points. Tu 4:10-6:00, Th 4:10-5:00. H

GRE W 4139x. Elements of Greek Prose Style.

Writing of sentences and connected passages in Greek.—L. Tarán.

Prerequisite: At least four terms of Greek or equivalent.

3 points. Tu Th 10:35-11:50.

LATIN LANGUAGE AND LITERATURE

LAT V 1101x-1102y.

Elementary Full-Year Course.

Autumn: Grammar, composition, and reading. Spring: Complete review of grammar and syntax; emphasis on representative readings.—Staff.

V 1101 is normally prerequisite to V 1102. V 1102 may be taken without V 1101 by permission of the instructor. No credit is given for V 1101 until V 1102 is completed.

4 points.

Section I M W F 1:10-2:25.

Section II M W F 11:00-12:15.

Section III M W F 6:10-7:25.

LAT V 1101y-LAT V 1102x.

Elementary Course.

Equivalent to V 1101-V 1102, but given in the Spring and Autumn.—Staff.

4 points.

No credit is given for V 1101 until V 1102 is completed.

Section I M W F 1:10-2:25.

Section II M W F 2:40-3:55. V 1102 only.

Section III M W F 6:10-7:25. V 1101 only.

Classics

LAT V1121x, y. Intensive Elementary Course.

This course is designed to cover all of Latin grammar and syntax in one semester in order to prepare the student to enter third semester Latin.—J. Magee.

4 points. M W F 9:10-10:25.

LAT V 1201x, y. Latin Literature: Prose.

x: Instructor to be announced. y: L. Lenaghan. Prerequisite: V1101-V 1102 or 2-3 years high school Latin.

4 points.

x: M W 10:35-11:50, F 10:35-11:25.

y: M W 11:00-12:15, F 11:00-11:50. H

LAT V 1202x, y. Latin Literature: Poetry.

Selections from Vergil, *Aeneid*; Ovid, *Metamorphoses*; and other works of Latin poetry.—x: I: P. Knox; II: Instructor to be announced. y: A. Cameron.

Prerequisite: V1101-V 1102 or 2-3 years high school Latin.

4 points.

x: Section I M W 1:10-2:25, F 1:10-2:00.

Section II M W 2:40-3:55, F 2:10-3:00.

y: Tu Th 1:10-2:25, F 1:10-2:00. H

LAT V 1221y. Intensive Intermediate Latin.

Covers the content of Latin V 1201 and 1202 in one term. Readings from Cicero and from the *Aeneid* of Vergil, the *Metamorphoses* of Ovid, and other works of Latin poetry.—P. Knox.

Prerequisite: V 1101-V 1102, or V 1121, or the equivalent.

4 points. M W F 10:35-11:50. H

LAT V 3012x. Lyric Poetry.

Selections from Catullus' polymetric poems and epigrams and from Horace's *Odes* and *Epodes*. The course combines literary analysis with work in grammar and metrics.—P. Knox.

Prerequisite: V 1201, 1202 or four years of high school Latin.

3 points. Tu Th 2:40-3:55. H

LAT V 3033y. Medieval Literature.

Survey of representative late Latin and medieval texts; readings from the Vulgate, the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography.—J. Magee.

Prerequisite: Three semesters of college Latin or permission of the instructor.

Alternate years.
3 points. M W 2:40-3:55. H

LAT W 4152x. Medieval Latin.

Readings from Latin authors of the late classical period and the early Middle Ages.—J. Magee.

Prerequisite: Course V 3012 or the equivalent.
3 points. M W 1:10-2:25. H

LAT V 3305x. Historians.

Prerequisite: Course V 3012 or the equivalent.

Alternate years. Not offered in 1988-89.

3 points. H

LAT V 3306x. Roman Satire.

Readings from Horace and Juvenal.—M. Petrin.

Prerequisite: Course V 3012 or the equivalent.

Alternate years.

3 points. Tu Th 9:10-10:25. H

LAT V 3307y. Elegiac Poetry.

Selected readings from Tibullus, Propertius, and Ovid.—M. Petrin.

Prerequisite: Course V 3012 or the equivalent.

Alternate years. Not offered in 1988-89.

3 points. H

LAT V 3308y. Philosophy.

Lucretius, *De rerum natura*; Cicero, *Academica* and selections from his other philosophical works.

Prerequisite: Course V 3012 or the equivalent.

Alternate years. Not offered in 1988-89.

3 points. H

LAT V 3309x. Selections from Latin Literature, I.

Content of course changes from year to year; it may be taken for credit in consecutive years.

Prerequisite: Course V 3012 or the equivalent.

Not offered in 1988-89.

3 points. H

LAT V3310y. Selections from Latin Literature, II.

Content of course changes from year to year; it may be taken for credit in consecutive years. Topic for 1988-89: Apuleius, *Golden Ass*. An introduction to Apuleius as an early and accomplished practitioner in the genre of the comic novel. Extensive selections from the *Golden Ass* will be studied in the context of its antecedents in literature, philosophy, and popular storytelling.—H. Bacon.

Prerequisite: Course V 3012 or the equivalent.

3 points. Tu Th 2:40-3:55. H

Classics

LAT W 4009x. Selections from Latin

Literature: Prose.

Content of course changes each year; it may be taken in consecutive years. Topic for 1988-89: A close reading of Tacitus' account of the reign of Nero.—A. Cameron.

Prerequisite: Course V 3012 or the equivalent.

3 points. Tu Th 2:40-3:55.

H

LAT W 4010y. Selections from Latin

Literature: Poetry.

Content of course changes each year; it may be taken in consecutive years. Topic for 1988-89: Close reading of Vergil, *Aeneid* 1-12.—L. Lenaghan.

Prerequisite: Course V 3012 or the equivalent.

3 points. M W 2:40-3:55.

H

LAT V 3997x, LAT V 3997y. Directed

Reading.

To be tested by a series of short papers, one long paper, or an oral or written examination.—Staff.

Permission of the chairman of the department required.

3 points. Hours to be arranged.

LAT V 3998x, LAT V 3998y. Supervised

Research in Latin Literature.

A program of research in Latin literature with the composition of a paper embodying results.—Staff.

Permission of the chairman of the department required.

3 points. Hours to be arranged.

LAT W 4105x, LAT V 4106y. History

of Latin Literature.

Lectures based on extensive readings in Latin literature from the beginning to the fourth century A.D.—x: J. Zetzel, y: A. Cameron.

Prerequisite: At least two terms of Latin beyond Course V 3012.

4 points. Tu 4:10-6:00, Th 4:10-5:00.

H

LAT W 4139x. Elements of Latin Prose Style.

Writing of sentences and connected passages in Latin.—P. Knox.

Prerequisite: At least four terms of Latin or the equivalent.

3 points. Tu Th 10:35-11:50.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the chairman and the major adviser. The courses are described in the

Bulletin of the Graduate School of Arts and Sciences.

MODERN GREEK LANGUAGE AND LITERATURE

MGR V 1101x-V 1102y.

Elementary Full-Year Course.

Introduction to Demotic Greek; emphasis on both speaking and writing; basic grammar and syntax; pattern practice reinforced by laboratory attendance; easy reading.—Instructor to be announced.

No credit is given for V 1101 until V 1102 is completed.

4 points. Tu Th 4:10-6:00.

MGR V 1201x. Intermediate Course, I.

More complex and idiomatic Greek through a variety of readings, including selections from Kazantzakis' *Report to Greco* and short stories by Myrivilis and Venezis; grammar and syntax review; conversation; short weekly compositions.—Instructor to be announced.

Prerequisite: V 1101-V 1102 or the equivalent.

4 points. Tu Th 1:10-2:25, plus 1 hour to be arranged.

MGR V 1202y. Intermediate Course, II.

Selected readings from modern Greek literature, both poetry and prose, annotated and presented in order of difficulty, used as a basis for discussion and composition. Poems by Solomos, Palamas, Cavafy, Seferis; short stories and essays by Theotokas, Terzakis and others. The improvement of the student's language skills is still a primary goal.—Instructor to be announced.

Prerequisite: V 1201 or permission of the instructor.

4 points. Tu Th 1:10-2:25, plus 1 hour to be arranged.

MGR V 3305x. Prose of the Twentieth Century: 1930-1950.

Four works representing the main trends of twentieth-century prose up to the Civil War: Myrivilis' *Life in the Tomb*, Venezis' *Aeolian Land*, Petsalis-Diomedes' *The Bell of Holy Trinity*, and Kazantzakis' *The Fratricides*. Main themes highlighted by a few relevant poems by Cavafy, Sikelianos, and Seferis.—Instructor to be announced.

Prerequisite: V 1202 or permission of the instructor.

3 points. Tu Th 10:35-11:50.

Classics

MGR V 3306y. Contemporary Prose and Poetry.

Divided equally between prose and poetry, selections from a few important works written after 1950: Samarakis' *I Refuse*, Vassilikos' *The Leaf*, *The Well*, *The Angel*, Margarita Lymberaki's *The Other Alexander*, Seferis' *Logbook III*,

Ritsos' *Romiosini*, *Moonlight Sonata*, *Repetitions*, and Elytis' *The Axion Esti*.—Instructor to be announced.

Prerequisite: V 3305 or permission of the instructor.

3 points. Tu Th 10:35-11:50.



Computer Science

Office: 450 Computer Science Building

Telephone: 280-2736

University Professor Emeritus
Samuel Eilenberg

Professors

Theodore R. Bashkow, Zvi Galil, Jonathan L. Gross (Vice Chairman), Mischa Schwartz (Electrical Engineering), Thomas E. Stern (Electrical Engineering), Joseph F. Traub (Chairman), Stephen H. Unger, Omar Wing (Electrical Engineering), Henryk Wozniakowski

Associate Professors

John Kender, Michael Lebowitz, Kathleen McKeown, Salvatore Stolfo, Grzegorz Wasilkowski (Program Consultant), Yechiam Yemini

Assistant Professors

Peter Allen, Terrance E. Boulton, Steven Feiner, Michael Foster, Lane A. Hemachandra, Gail E. Kaiser, Gerald Q. Maguire, Jr. (Program Consultant), Calton Pu.

Lecturers

David Bantz, Jacob Gielchinsky, Newcomb Greenleaf, Mark Kon, Robert G. Rieper (Program Consultant)

Adjunct Professor

Bruce Gilchrist

Senior Lecturer

Newcomb Greenleaf

Adjunct Lecturers

David Bantz, Shlomo Bitter, Joan Feignebaum, William Frakes, Jacob Gielchinsky, Kurt Keutzer, David Lee, Alexander Thomassian

The spectrum of computer science ranges from the analysis of problems in a great variety of applications to the design of the machines that effect the solutions, and it includes all the linking steps between them. Computer scientists are interested not only in mathematics and engineering, but also in the sources of the problems, wherever they lie. Thus, although most recent graduates in Computer Science are now in computer science proper, either in industry or in graduate degree programs, many are in medical school, business school, or other such activities, planning to combine computer science with another strong interest in their careers.

The Computer Science curriculum has a double core, partially in areas with an immediate relationship to the computer, such as programming languages, compilers, operating systems, and computer architecture, and partially in theoretical computer science and mathematics. A broad range of upper-level courses is available in topics such as artificial intelligence, combinatorial methods, computational complexity and the analysis of algorithms, computer architecture and VLSI design, computer communications, computer graphics, computer vision, data bases, distributed computing, expert systems, mathematical models for computation, natural language processing, programming environments, and robotics. Thus, students obtain the background to pursue their interests both in applications and in theoretical developments.

Academic computing needs are met by University computing facilities which include DEC and IBM mainframes and microcomputers. Qualified majors often serve as consultants at the Computer Center.

In addition to course work, students sometimes assist faculty members on research projects. The department's research facilities include lab areas for robotics, computer vision, distributed computing, and parallel architecture research.

The department's computer facilities consist of a DEC 2060; an IBM 4381 with two CAD stations; six DEC VAX 11/750s; numerous HP, Sun, AT&T, DEC, Symbolics,

Computer Science

and Silicon Graphics workstations; and many microcomputers and assorted peripheral devices, including laser printers, plotters, a color scanner, and a high resolution Matrix color film recorder. Most of the computing equipment connects to a departmental Ethernet, which is gatewayed to a campus backbone network, as well as to ARPANET, BITNET, NYSERNET, and USENET.

There are several different introductory courses in computer programming. Students may elect only one of them for degree credit. Freshmen considering a Computer Science major should take W1003. Non-majors usually take W1001, *Introduction to Computer Programming, A*. There is also an intermediate course for non-majors, W 1011, *Intermediate Computer Programming*. By taking W 1001 or W1003 early in their college years, non-majors are able to use the computer in their upper-level studies in other departments.

REQUIREMENTS FOR THE MAJOR

Students who plan to major in Computer Science should see a Program Consultant by the start of the sophomore year.

A total of 16 courses are required for the major.

W 1003	(preferably in the freshman year)
Mathematics	<i>Calculus I and II</i> (preferably in the freshman year)
W 3131	<i>Data Structures</i> (preferably in the sophomore year)
W 3152	<i>Software Design Laboratory</i> (preferably in the sophomore year)
W 3203	<i>Discrete Mathematics, I</i> (preferably in the sophomore year)
W 3205	<i>Discrete Mathematics, II</i> (preferably in the sophomore year)
W 3232	<i>Fundamental Algorithms</i> (preferably in the sophomore year)
W 3244	<i>Probability and Matrix Models</i>
W 3261	<i>Computability and Models of Computation</i>
W 3823	<i>Digital Logic</i>
W 3824	<i>Computer Organization, I</i>
W 4115	<i>Programming Languages and Translators, I</i>
W 4701	<i>Artificial Intelligence</i>

and an approved choice of two additional courses to be selected from computer science, mathematics, or statistics.

Note: A student may substitute *Introduction to Probability* (E 3658) and *Applied Math I* (E 3101) for W 3244 if desired; in which case one of these will count toward the elective requirement. *Both* of these courses must be taken to allow the substitution.

Students of the class of 1989 may follow the old degree requirements as stated in the 1985-86 Barnard Catalogue, if they are already taking advanced courses. 39 points: 6 points in calculus (I-II); 21 points in required computer science courses: W 1001 or W 1003, W 3203, W 3204, W 3823, W 3131, W 3232, and W 3261; 12 points of appropriate elective upper-level courses in computer science, mathematics, or statistics.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor: Computer Science W 3203, W 3131, W 3232, W 3823, and one of the following: W 3824, W 4115, or W 4701.

Computer Science

COURSES OF INSTRUCTION

CSC W 1001x, CSC W 1001y. Introduction to Computer Programming, A.

Intended primarily for students in the Arts and Sciences divisions. General introduction to computer programming. Emphasis on learning to write programs to solve problems in familiar applications, such as payroll, computer-assisted instruction, ecology, library science, literary text analysis, cryptology, and game playing. Rudiments of structured programming. PASCAL.—R. Rieper.

Laboratory fee \$35.

3 points.

x: Tu Th 1:10-2:25.

y: Tu Th 5:40-6:55.

CSC W 1003x, CSC W 1003y. Introduction to Computer Programming, B.

Intended primarily for students considering a major in computer science. Honors level introduction to computer programming. PASCAL.—Instructor to be announced.

Laboratory fee \$35.

3 points.

x: I Tu Th 11:00-12:25. C. Tarabanis.

II M W 4:10-5:25. D. Seligman.

III M W 6:10-7:25. L. Wolff.

y: Hours to be arranged.

CSC W 1005x, CSC W 1005y. Introduction to Computer Programming, C.

Intended primarily for engineering students. General introduction to computer programming, with engineering applications. Structured program design. FORTRAN.—L. Lidafsky.

Laboratory fee \$35.

3 points.

Section I: Hours to be arranged.

Section II: Hours to be arranged.

CSC W 1011x, CSC W 1011y. Intermediate Computer Programming.

Continuation of introduction courses; simple record structures and file processing, in both advanced BASIC and PASCAL; systems of programs and files, modeling; round off error; elementary principles of machine language and assembly language coding.—Instructor to be announced.

Laboratory fee \$35.

Prerequisite: W 1001 or W 1005.

3 points. Not offered in 1988-89.

CSC W 3131x, CSC W 3131y.

Data Structures.

Data types and structure: arrows, stacks, singly and doubly linked lists, queues, trees,

sets, and graphs; programming techniques for processing such structures; recursive programming, internal sorting and searching, hashing, garbage collection; storage management, rudiments of the analysis of algorithms.—Instructors to be announced.

Corequisite: W 3203.

3 points.

x: Hours to be arranged.

y: Hours to be arranged.

CSC W 3152x, CSC W 3152y.

Software Design Laboratory.

Principles of software engineering including definition and use of abstract data types, topdown design, structured programming, modular decomposition, and testing and debugging strategies. A substantial amount of programming is required. It is strongly recommended that this course be taken concurrently with CSC W 3232.—N. Polish.

Prerequisite: CSC W 3131.

1½ points. Tu Th 11:00-12:25.

CSC W 3203x, CSC W 3203y. Discrete

Mathematics I: Introduction to

Combinatorics and Graph Theory.

Mathematical induction, counting arguments (permutations and combinations, elementary finite probability, generating functions, recurrence relations, inclusion-exclusion principle), and topics in graph theory (isomorphism, planarity, circuits, trees, and directed graphs).—R. Rieper.

Prerequisite: Any introductory programming course.

3 points. Hours to be arranged.

CSC W 3205x, CSC W 3205y. Discrete

Mathematics II: Introduction to Discrete

Structures.

Inductive definitions, sets and relations, elementary logic, boolean algebra, and elementary algebraic structures.—A. Werschulz.

3 points. M W 11:00-12:25.

CSC W 3232x, CSC W 3232y.

Fundamental Algorithms.

Continuation of W 3131. Pattern matching, lexical analysis, parsing, backtracking, divide and conquer, generating combinatorial objects, graph searching, spanning trees, external sorting and searching, 2-3 trees, balanced trees, B-trees, files; elements of data base design; other topics as time permits. Analysis of algorithms is stressed throughout.—N. Greenleaf.

Prerequisite: W 3131.

3 points. x: M W 5:40-6:25. y: Tu Th 9:10-10:25.

Computer Science

CSC W 3244y. Probability and Matrix Models. Mathematical methods and their application to probabilistic and linear models. Probability theory, stochastic models, solutions to systems of linear equations, linear programming, and game theory.—H. Wozniakowski.

Prerequisite: CSC W 3203.

3 points. Tu Th 4:10-5:25.

CSC W 3251x, CSC W 3251y. Scientific Computation I.

Major topics of scientific computations: properties of floating point arithmetic, numerical stability and conditioning, interpolation, integration and approximation of scalar functions, nonlinear equations and ordinary differential equations. Covers also computational methods of linear algebra for solving systems of linear equations, linear least squares and the eigen-values. The computational complexity of some of these problems will be discussed. The computer implementation of algorithms is stressed.—T. Boulton.

Prerequisites: Calculus I and II, Mathematics E 1210, Engineering Mathematics E 3101.

3 points. M W 1:10-2:25.

CSC W 3252x, CSC W 3252y. Scientific Computation II.

A continuation of CSC W 3251.—Instructor to be announced.

Prerequisite: CSC W 3251.

3 points. Not offered in 1988-89.

CSC W 3823x, W 3261y. Computability and Models of Computation.

Formal models of computation and properties; Turing machines, recursive functions; decidability and undecidability; concepts and properties of formal languages: regular, context-free, context-sensitive, recursive; grammars; relationships to automata: finite state, push-down, linear bounded, Turing machines.—N. Greenleaf.

Prerequisite: W 3131 and W 3203.

3 points. x: M W 1:10-2:25. y: Tu Th 2:40-3:55.

CSC W 3823x, CSC W 3823y. Digital Logic.

Number representation, boolean algebra, combinational logic, Karnaugh maps, circuit minimization, NAND and NOR logic, fault detection, implementation of gates, integrated circuits, flip-flops, latches, counters and other basic functional circuits, sequential circuits, clocking.

Prerequisite: Any introductory programming course.

3 points. x: Tu Th 1:10-2:25. T. Bashkow. y: M W 4:10-5:25. S. Unger.

CSC W 3824x,y. Computer Organization I.

Overview of computer organization, register transfer sequences, micro-operations, control functions, instruction codes, bus organization, ALU's, interrupts, memory, pipelining, I/O.

Prerequisite: CSC W 3823.

3 points.

x: Tu Th 4:10-5:25. T. Boulton.

y: Tu Th 1:10-2:25. T. Bashkow.

CSC W 3998x, CSC W 3998y.

Undergraduate Projects in Computer Science.

This course may be repeated for credit, but not for a total of more than 3 points of degree credit. Independent project involving laboratory work, computer programming, analytical investigation, or engineering design.—Staff.

Prerequisite: Approval by a faculty member who agrees to supervise the work.

Up to 3 points. Hours to be arranged.

CSC W 4115x. Programming Languages and Translators I.

Covers language design issues; syntax; the translation process; names, locations and values; control structures; data types; input and output; procedures and parameters; nesting and scope; definition of new data types; dynamically varying structures; applicative languages; exception handling; parallel processing; and separately compiled modules. A large language implementation project is required.—G. Kaiser.

Prerequisite: W 3131. W 3152 strongly recommended.

3 points. M W 9:10-10:25.

CSC W 4117y. Programming Languages and Translators II.

Continuation of Course W 4115. Techniques in computer language implementation; application of formal language theory to design of compilers; implementation of language features such as nested procedures, reentrancy and recursion; code optimization; run-time storage organization.—Instructor to be announced.

Prerequisites: W 4115 and W 3261.

Not offered in 1988-89.

3 points.

CSC W 4118x, CSC W 4118y. Operating Systems.

Design and implementation of operating systems. Topics include process management, process synchronization and interprocess communication, memory management, virtual memory, interrupt handling, processor

Computer Science

scheduling, device management, I/O, and file systems. Case study of the UNIX operating system. A programming project will be required.—x: G. Maguire, y: C. Pu.

Prerequisites: CSC W 3131, CSC W 3152.

3 points. x: M W 5:40-6:25. y: Tu Th 1:10-2:25.

CSC W 4119y. Computer Networks.

The design of system software to support computer networks, layered protocol architecture, distributed operating systems. A programming project will be required.—G. Maguire.

Prerequisite: CSC W 4118.

3 points. M W 11:00-12:15.

CSC W 4156x. Software Engineering.

Design and implementation of software systems. The software life cycle: requirements definition, specification, design, implementation, testing, and maintenance. User interfaces. Documentation. Management. Verification. A substantial group project is required.—S. Feiner.

Prerequisite: W 3131. *Recommended preparation:* W 4118, knowledge of UNIX/C.

3 points. Hours to be arranged.

CSC W 4160y. Computer Graphics.

An intensive introduction to computer graphics. Graphics hardware, design of graphics packages, interaction techniques, geometric transformations, 3D viewing and projections, raster scan conversion algorithms, image synthesis, visible surface determination, lighting and shading, representation of 3D shapes, object modeling and hierarchy, color, and animation. Advanced topics as time permits. Emphasis is on implementation of important graphics algorithms.—S. Feiner.

Prerequisites: W 3232, and either W 3152 or W 4156.

Previous familiarity with C and UNIX is recommended.

3 points. Hours to be arranged.

CSC W 4201y. Theory of Computation.

Theory of computation, structure of complexity classes, computational complexity theory, feasible and infeasible computations.—L. Hemachandra.

Prerequisite: W 3261 or the instructor's permission.

3 points. Tu Th 5:40-6:25.

CSC W 4203x. Graph Theory.

General introduction to graph theory, emphasizing algorithms: Eulerian paths and circuits, shortest paths, trees, minimum spanning trees, the number of spanning trees,

depth-first search, network flows, leipartite matching and the marriage problem, the transportation problem, minimum-core flows, other topics as time permits.—Instructor to be announced.

Prerequisite: W 3203.

3 points. Not offered in 1988-89.

CSC W 4205x, CSC W 4205y.

Combinatorial Theory.

Permutations and combinations, generating functions, recurrence relations, the inclusion-exclusion method. Polya's enumeration methods. Other topics as time permits.—Instructor to be announced.

Prerequisites: CSC W 3203 and a course in calculus.

Not offered in 1988-89.

3 points.

CSC W 4231x. Analysis of Algorithms I.

Course E 6232 is a continuation of this course. Some of the topics described below will not be covered until E 6232. Representation and generation of combinatorial objects; methods for the analysis of algorithms; counting and asymptotic evaluation analysis of sorting, searching, algorithms on graphs, operations on strings, arithmetic operations, matrix operations. Fourier transform; models of computation; the Turing machine model, the random-access model, circuit complexity and the VLSI model; probabilistic algorithms; elements of abstract complexity theory; complexity hierarchies; polynomial and NP problems; lower bounds on the complexity of various problems in various mdoels; worst-case and average behavior of algorithms; diophantine complexity; applications to cryptography and public key systems; linear programming and its complexity; the simplex and Khacian methods; average behavior of the simplex method. Other topics as time permits.—Z. Galil.

Prerequisites: W 3131, W 3203.

3 points. M W 1:10-2:25.

CSC W 4241x. Numerical Algorithms and Their Complexity I.

Modern theory and practice of computation on digital computers. Covers design and analysis of numerical algorithms. Techniques for analyzing computational complexity and errors. Solutions of non-linear equations, polynomial equations, linear systems, interpolation, approximation, eigenvalues and eigenvectors, optimization, ordinary and partial differential equations. Some of these topics are covered in the sequel, CSC W 4242y.—J. Traub.

Computer Science

Prerequisite: Knowledge of programming language. Some knowledge of differential equations and linear algebra is desirable.
3 points. Tu Th 2:40-3:55.

CSC W 4242y. Numerical Algorithms and Their Complexity II.

A continuation of CSC W 4241x.
Prerequisite: CSC W 4241x.
3 points. Hours to be arranged.

CSC W 4701x, CSC W 4701y. Artificial Intelligence.

This course is designed to give a senior level student a broad understanding of the basic techniques in use today for building intelligent computer systems. State-space representations, problem reduction, means-end analysis, and/or graphs. Heuristic searching; depth-first, breadth-first, best-first, hill-climbing, divide and conquer, minimax, alpha-beta, predicate calculus, resolution theorem-proving; Horn clause theorem-provers; AI systems and languages; goals and contexts; issues of knowledge representation; learning and concept formation; LISP programming; other topics as time permits.

Prerequisite: W 3131.

3 points.

x: Tu Th 2:40-3:55. J. Kender.

y: Tu Th 9:35-10:50. S. Stolfo.

CSC W 4705y. Natural Language Processing.

An introduction to the artificial intelligence approach to human language processing. Topics such as conceptual representation, story understanding, language generation, question answering, and the relation between computer models and cognitive psychology. Computer exercises in several of these areas. Some prior or concurrent exposure to AI and LISP is recommended.—K. McKeown.

Prerequisite: W 3131.

3 points. Hours to be arranged.

CSC W 4733y. Computational Aspects of Robotics.

Introduction to robotics from a Computer Science perspective. Topics include coordinate frames and kinematics, computer architectures for robotics, integration and use of sensors, world modeling systems, design and use of robotic programming languages, and applications of artificial intelligence for planning, assembly and manipulation.—P. Allen.

Prerequisite: W 4701.

3 points. Tu Th 4:10-5:25.

CSC G 4801x. Mathematical Logic.

Introduction to mathematical logic. Fundamental notions of set theory and recursion theory; detailed discussion of propositional and predicate logic, completeness, (un-)decidability, and theorem-proving.—Instructor to be announced.

Prerequisite: Permission of the instructor.

3 points. Not offered in 1988-89.

Computer Science-Philosophy G 4802y. Mathematical Logic II.

Axiomatic set theory: ordinals, cardinals, the axiom of choice, models of set theory. Definability; hierarchies of sets of integers. Connections between set theory and theory of computability.—Instructor to be announced.

Prerequisite: G 4801 or equivalent.

3 points. Not offered in 1988-89.

CSC W 4841x. Introduction to VLSI.

Introduction to the structure and design of VLSI systems. Topics include (but are not limited to) VLSI machine organization and algorithm specification, hierarchical structuring of planar systems, system primitives (e.g., PLAs, registers, function units), area/time trade-offs, design synthesis and verification techniques.—M. Foster.

Prerequisites: W 3261 and W 3284.

3 points. Tu Th 1:10-2:25.

CSC W 4995x, CSC W 4995y. Special Topics in Computer Science.

Special topics arranged as the need and availability arise. Topics are usually offered on a one-time basis. This course may be repeated for credit.—Instructor to be announced.

Prerequisite: Permission of the instructor.

3 points. Hours to be arranged.

CSC W 4996x, CSC W 4996y. Special Topics in Computer Science.

A continuation of Course W 4995, when the special topic is to be offered over two semesters.—Instructor to be announced.

Prerequisite: Permission of the instructor.

3 points. Hours to be arranged.

Dance

Office: 204 Barnard Hall Annex

Telephone: 280-2995

Associate Professor

Sandra Genter (Chairman)

Senior Lecturer

Janet Soares

Senior Associate

Cynthia Novack

Associate

Janis Ansley-Ungar, Cynthia Novack

Instructor

Ellen Graff

Lecturers

Marcos Dinnerstein, Elisabeth Fleischer, Virginia Parks

The Barnard Dance Department seeks to develop technical versatility in dance performance, skill in choreography, and critical understanding of the art of dance as a part of history and culture. Students graduating with a degree in dance may pursue professional careers as performers, choreographers, or dance writers; some students undertake graduate work in dance history, notation, dance therapy, arts management, education, and other related fields.

Studios and theaters in New York City provide Barnard students opportunities to study and view an array of dance, while major libraries and dance institutions offer rich possibilities for research. The Dance Department regularly invites guest artists to teach and choreograph and presents symposia, workshops, and concerts throughout the year.

All dance courses except Senior Seminar and Senior Major Project are open to students who meet the prerequisites. Students accepted as majors may take classes with artist teachers in conjunction with their dance study within the department. Barnard College is an accredited institutional member of the National Association of Schools of Dance.

Students contemplating a dance major should consult with a member of the department in the freshman year. Declaration of the major requires departmental approval.

REQUIREMENTS FOR THE MAJOR Majors in Dance must complete a total of fourteen courses in Dance and related subjects in the distribution set forth below:

DAN BC 2561

Anatomy for the Dancer and Technique

DAN BC 2562

Movement Analysis and Technique

DAN BC 2563

Form in Dance Composition

DAN BC 2564

Content in Dance Composition

DAN BC 2565

History of Dance I

DAN BC 2566

History of Dance II

DAN BC 3571

Performance Styles and Technique

DAN BC 3572

Repertory in Production and Technique

PIA BC 3591

Senior Seminar (Program in the Arts)

Senior Major Project

DAN BC 3592

I. Research for Dance

DAN BC 3593

II. Repertory for Concert Dance

Dance

Two courses elected from the following:

DAN BC 2555

Dance Repertory: Construction and Analysis

DAN BC 2567

Fundamentals of Music for Dancers

DAN BC 2568

Dance and Movement: An Anthropological Approach

DAN BC 3567

Dance Criticism

DAN BC 3574

Seminar on Contemporary Choreographers and Their Works

Two courses elected in pursuit of the historical and cultural contexts of dance from the following:

ENG BC 3183

Modern Literature and the Allied Arts

PHI V 3803

The Concept of Beauty

PHI V 3801

Aesthetics

EIT C 3358

Artistic Theory in the Renaissance

EAS V 3340

Theories of the Arts in China

EAS V 3620

Japan: The Aesthetic Tradition

WMS BC 3117

Women and Film

HIS BC 3062

American Culture since 1920

HIS BC 3456

Popular Culture in the United States

ASH BC 3041

Cultural Approaches to the American Past

ARH BC 3678

Modern Art: The Avant Gardes 1890-1930

ARH BC 3679

Modern Art: Modernism and the Mass Media, 1920 to present

OMU V 3320

Introduction to the Musics of East Asia and Southeast Asia

OMU V 3321

Introduction to the Musics of India and West India

ETR BC 3131

History of Theatre: Greeks to Shakespeare

ETR BC 3132

History of Theatre: Shakespeare to the 19th Century

ETR BC 3133

History of the Theatre: Modern Period.

HUM BC 3201

Coll. in Humts: Tragedy and Transcendence

ANT V 3044

Symbolic Anthropology

REL V 3735

Religious Ritual

(Other courses in Philosophy of Art, Cultural History, Art, Music, and Theatre History, Anthropology and Religion may be substituted with permission from the Department chairman.)

REQUIREMENTS FOR THE MINOR

Six courses constitute a minor in Dance. Normally, three history/criticism and three credit-bearing performance/choreography courses are taken. Courses are to be selected on the basis of consultation with the department chairman.

COURSES OF INSTRUCTION

DAN BC 1551x, DAN BC 1552y.

Modern Dance Technique and Theory.

Studio work in intermediate modern dance technique, including study of the elements of movement based on the theories and techniques of selected modern dance artists. Emphasis is on experiencing dance; readings, videos/films, developing short movement studies, and discussion accompany the studio work.—S. Genter.

Prerequisite: Intermediate skill level in modern dance technique.

2 points. Tu 4:10-6:30, Th 4:10-5:25.

DAN BC 1553x, DAN BC 1554y. Ballet Technique and Theory.

Studio work in intermediate ballet technique, including study of the components of movement using examples selected from various ballet traditions. Emphasis is on experiencing ballet as a dance technique. Comparison of the styles of the different schools through the study of variations; readings, videos/films, developing short movement studies, and discussion accompany the studio work.—J. Ansley-Ungar.

Prerequisite: Intermediate skill level in ballet technique.

2 points. M W 4:10-6:00.

Dance BC 2555y. Dance Repertory. Construction and Analysis.

The learning of excerpts and an entire dance work from the ensemble repertory of major choreographers as well as a commissioned work by a professional. Introduction to reading Labanotation, viewing videos/films, readings, written analyses and final paper accompany the studio work.—J. Soares.

Prerequisite: Intermediate skill level in ballet or modern dance.

3 points. M W 2:40-3:55.

DAN BC 2561x. Anatomy for the Dancer and Technique.

Functional anatomy for the dancer; study of the structural and mechanical principles of human movement. Assignments include

readings and periodic writing assignments.—S. Genter.

Prerequisite: Intermediate skill in either ballet or modern dance. Permission of the instructor required.

4 points. F 12:10-2:00, plus five studio classes to be announced.

DAN BC 2562y. Movement Analysis and Technique.

Analysis of space, time, and dynamics in dance movement, including exploration of how these elements operate in producing dance style. Assignments include readings, viewing videos/films and developing short movement studies.—S. Genter.

Prerequisite: Intermediate skill level in either ballet or modern dance. Permission of the instructor required.

4 points. F 12:10-2:00, plus five studio classes to be announced.

DAN BC 3571x. Performance Styles and Technique.

Advanced analysis of movement with emphasis on interrelationships and varying uses of rhythm, space, and dynamics for the developing dancer. Assignments include learning excerpts from dance repertory, readings, periodic writing assignments, and presentation of solo repertory work.—J. Soares.

Prerequisites: DAN BC 2561 and BC 2562.

4 points. F 12:10-2:00, plus five studio classes to be announced.

DAN BC 3572y. Repertory in Production and Technique.

Advanced analysis of the relationship of technique to style in dance movement through the study of specific dance works. Assignments include study of the materials through readings, films, and videotapes; periodic writing assignments; performance of the dance, with students responsible for lighting and costuming the presentation.—J. Soares.

Prerequisites: DAN BC 2561, BC 2562, and BC 3571.

4 points. F 12:10-2:00, plus five studio classes to be announced.

Dance

DAN BC 2563x. Form in Dance

Composition.

Development of dance form through the manipulation, according to formal composition principles, of rhythm, energy and design in movement.—J. Soares.

Prerequisite: Facility in dance technique. Permission of the instructor required. Enrollment limited to 12 students.

3 points. M W 12:20-1:50.

DAN BC 2564y. Content in Dance

Composition.

Research in the source materials of dance composition and exploration of their uses in choreography, including gesture, movement texture, rhythmic structure, movement shape, and literary ideas. Emphasis on unity of style in the work of each student.—J. Soares.

Prerequisite: Facility in dance technique. Permission of the instructor required. Enrollment limited to 12 students.

3 points. M W 12:20-1:50.

DAN BC 2565x, DAN BC 2566y. History of Dance.

This course investigates dance history through critical analysis of film, video, reading, and demonstration. Autumn Term: Multicultural Perspectives, the history of dance in major culture areas of the world. Spring Term: the history of theater dance forms in Europe and America from the Renaissance to the present.—C. Novack.

3 points. Tu Th 10:35-11:50.

DAN BC 2567y. Fundamentals of Music for Dancers.

An intensive study of musicianship skills and musical literacy designed for students of dance. Analysis of the elements of rhythm, tonality, musical structure, texture and style, with laboratory work in ear-training, pitch reading, rhythm skills, score-reading and elementary composition.—E. Fleischer.

3 points. F 2:10-4:00.

DAN BC 2568y. Dance and Movement: An Anthropological Approach.

An investigation of the theories and methods used to observe and analyze dance and movement in symbolic and social contexts. Critical examination of texts from the literature of anthropology and of dance. Course includes film-viewing, practice in making observations, and a fieldwork project. Open to stu-

dents in dance, anthropology, and related fields.—C. Novack.

Alternate years. Not offered in 1988-89. 3 points.

DAN BC 3574y. Contemporary Choreographers and Their Works.

Form, style and content of selected contemporary choreographers. Sources include film, videotape, attendance at rehearsals and concerts, and interviews.—S. Genter and guest choreographers.

Alternate years. Not offered in 1988-89. 3 points.

DAN BC 3576y. Dance Criticism.

Intensive practice in writing about dance. Readings drawn from nineteenth- and twentieth-century dance criticism. Observation includes weekly performances and classroom videotape sessions.—T. Tobias.

Prerequisite: Facility in writing, sample of which must be submitted to Dance Office prior to first class meeting. Permission of the instructor required. Enrollment limited to 12 students. Alternate years. Not offered in 1988-89.

3 points.

PIA BC 3591x. Senior Seminar.

Contemporary issues in the arts, with reports and projects leading to a thesis or performance. Participating students are encouraged to work in groups, whenever their interests coincide or the logic of performance suggests such collaboration. Theme for 1988-89; Expressionism.—J. Soares

4 points. Tu 4:10-6:00.

Conference hour. M 6:00-7:00.

DAN BC 3592y. Senior Major Project: Research for Dance.

This course is designed to enable a senior major to research a dance related topic and write a paper of substantial length (25-40 pages). A formal presentation of the project will be required.—Dance staff.

3 points.

DAN BC 3593y. Senior Major Project: Repertory for Dance Concert.

This course is designed to enable senior dance majors to prepare and present a concert performance of their own and/or repertory choreography of at least 30 minutes in length. The project will be produced and performed in concert. A paper documenting the work will be required.—Dance staff.

3 points.

STUDIO DANCE COURSES

Courses listed below may be offered in fulfillment of the physical education requirement.

For information regarding time and place of classes and instructors, consult the Directory of Classes for the appropriate semester.

Modern Dance

Technique of contemporary dance with particular emphasis on good alignment and an understanding of the principles of body movement; opportunities for experiments in improvisation and in learning movement phrases.

DAN BC 1330x, y.
Beginning Modern Dance. (A)

DAN BC 1331x, y. Low
Intermediate Modern Dance. (B)

DAN BC 2332x, y.
Intermediate Modern Dance. (C)

DAN BC 3333x, y.
Advanced Modern Dance. (D)

DAN BC 3334x, y.
Contact Improvisation
(For majors, minors, and by audition.)

Ballet

Technique of classical ballet.

DAN BC 1135x, y.
Beginning Ballet. (A)
Previous study of another dance style strongly recommended before beginning ballet.

DAN BC 1136x, y. Low
Intermediate Ballet. (B)

DAN BC 2137x, y.
Intermediate Ballet. (C)

DAN BC 3138x, y.
Advanced Ballet. (D)

DAN BC 3139x, y.
Classic Variations
(For major, minors, and by audition.)

Jazz Dance

Incorporation of ballet and modern dance technique in the distinctive style of jazz dance.

DAN BC 1247x. Low Intermediate Jazz
Dance. (B)

DAN BC 2248y. Intermediate Jazz
Dance. (C).

Tap Dance

Basic tap dance steps and dances of traditional tap styles, including buck, soft shoe, and rhythm buck.

DAN BC 1446x. Beginning Tap Dance. (A)

DAN BC 2447y. Intermediate Tap Dance.
(C)



Economics

Office: 4A Lehman Hall

Telephone: 280-3454

Professors

Duncan Foley (Chair, Autumn), William Lazonick, Deborah Milenkovitch.¹

Associate Professor

André Burgstaller (Chair, Spring)

Assistant Professors

Cecilia Conrad, Maria Crummett, Jayasri Dutta, Christopher Grandy, Gikas Har-douvelis, Perry Mehrling

Other officers of the University offering courses listed below:

Professors

Philip D. Cagan, Arnold Collery, Richard Ericson, Ronald E. Findlay, Jacob Mincer, Robert Mundell, James I. Nakamura, Hugh Patrick (*Graduate School of Business*), Harold Watts, Stanislaw Wellisz

Associate Professors

Bruce Lehman, Asad Zaman

Adjunct Associate Professors

Carl Riskin, Katharine Morgan

Assistant Professors

Ralph Braid, Nicholas S. Economides, Michael Gavin, D. Holtz-Eakin, John E. Kambhu, Patricia Mosser, Steven Sklivas

Adjunct Professor

Michael Edelstein

¹Absent on leave, Autumn Term

The Department of Economics offers a broad course of study in economic theory and applied economics. The study of economics is an important foundation for a student's general understanding of modern history and society. The major programs in economics also prepare students for graduate work in economics, business, law, public administration, international relations and related fields, as well as for careers in business, finance, and government. The aim of the Barnard program is to foster a critical understanding of economics and its relations to other disciplines in the course of developing students' mastery of modern economic theory and tools of analysis.

Students planning to major in economics or political economy should complete an intermediate macro- or microeconomic theory course before the beginning of their junior year. Students must complete all of their required courses for the major as well as their upper-level electives (those requiring an Intermediate Micro- or Macro- economics Theory course as a prerequisite and, for Political Economy track majors, the upper-level political science course) before they are allowed to register for the senior essay.

Students with a score of 4 or 5 on the Advanced Placement Examination in either macroeconomics or microeconomics will receive a total of three points credit.

REQUIREMENTS FOR THE MAJOR

There are two tracks for the major in economics equal in rigor and number of courses required, but different in scope and focus. The track in Economics will prepare students with the analytical, mathematical, and economic tools now expected of entering graduate students in economics and useful for graduate study in related fields such as business. The track in Political Economy embraces some techniques of contemporary analysis but emphasizes the rediscovery of the roots and traditions of economic thought and focuses on interconnections between social forces, political institutions, and economic power. This track constitutes an excellent preparation for a variety of professional schools and careers.

Economics

Prospective majors should discuss their programs with any member of the department no later than their sophomore year. At the time of declaring a major the student also chooses a major adviser who will advise her as to choice of program and courses, and help in the choice of a senior essay topic and adviser.

Students who wish to complete a double or joint major including economics should consult the chairman of the department as early in their planning as possible.

Economics

The Economics track major requires 2 courses in Calculus and 9 in Economics including

Economics BC 3033	<i>Intermediate Macroeconomic Theory</i>
Economics BC 3035	<i>Intermediate Microeconomic Theory</i>
Economics BC 3041	<i>The Theoretical Foundations of Political Economy</i>

One of the following three sequences:

A. Economics BC 2411	<i>Introduction to Applied Econometrics</i>
Economics BC 3018	<i>Econometrics</i>
B. Economics BC 2411	<i>Introduction to Applied Econometrics</i>
Economics BC 2412	<i>Econometrics Applications</i>
C. Statistics W 1111	<i>Introduction to Statistics</i>
Economics BC 3018	<i>Econometrics</i>

2 electives, which require an Intermediate Micro - or Macroeconomic Theory course as a prerequisite; and

Economics BC 3061-3062
Senior Research Seminar

Political Economy

The Political Economy track major requires 11 courses, including

Economics BC 3034	<i>Intermediate Macroeconomic Theory</i>
Economics BC 3035	<i>Intermediate Microeconomic Theory</i>
Economics BC 3041	<i>The Theoretical Foundations of Political Economy</i>

3 electives which require an Intermediate Micro- or Macroeconomic Theory course as a prerequisite;

2 electives in economics (*excluding* introductory economics), or a related discipline;

One upper-level course in Political Science*; and

Economics BC 3061-BC 3062. Senior Research Seminar.

*The following Political Science courses are *not* considered upper-level:

BC 3001	<i>Dynamics of American Politics;</i>
V 3505	<i>Introduction to Comparative Politics;</i>
V 3611	<i>International Politics;</i>
BC 3013	<i>Political Theory.</i>

(NOTE: The major requirements listed above are mandatory only for those students who graduate *after* October 1990. A list of the major requirements for those students who graduate by October 1990 can be obtained from the "General Information for Economics Students" pamphlet available from the department office.)

Both Economics and Political Economy track majors **must** file the "Major Requirements Declaration" form—available from the department office—no later than registration of the first semester of their senior year. This form must be approved by the chairman before a student will be allowed to register for the senior thesis, BC 3061-BC 3062.

Economics

Political Economy majors who plan to go on to graduate school in Business or in International Relations with an Economics concentration should take one semester of credit college math (either pre-calculus or calculus), and Economics BC 2411.

Political Economy majors who plan to go on to graduate school Ph.D. programs in Economics should take one year of calculus, and Economics BC 2411 and Econometrics among their Economics electives.

Mathematics Training for the Major

The department expects all majors to have a working knowledge of arithmetic, high-school algebra, and the fundamentals of analytic geometry. Beyond that, we highly recommend that majors take at least two semesters of calculus (required of economics-track majors). *General Information for Economics students (available at the department office) contains specific departmental suggestions concerning appropriate mathematics courses.*

REQUIREMENTS FOR THE MINOR

The minor in economics requires 5 courses, including introductory course in economics BC 3033 or BC 3034 or BC 3035, and 3 electives, 1 of which has an Intermediate Micro -or Macroeconomics Theory course as a prerequisite.

COURSES OF INSTRUCTION

Barnard Economics BC 3033 and BC 3034 are equivalent to Columbia W 3213, and Barnard BC 3035 to Columbia W 3211.

GENERAL COURSES

Courses listed under this heading may be taken without previous study of economics.

ECO BC 1001x, ECO BC 1001y.

Introduction to Economics.

The department posts sign-up sheets for admission to sections of Economics BC 1001 and BC 1002 outside Lehman 4A. For Autumn Term courses, these are posted March 15, and for Spring Term courses, November 1.

Basic concepts of economic analysis, with emphasis on the aggregate economy; essentials of supply and demand, national income and its determination, United States economic institutions, government, finance and monetary economics, economic growth and inequality. (Macroeconomic Principles)—Staff.

Enrollment limited to 40 students per section.

See department for sign-up sheets.

3 points.

x: Section I M W F 10:00-10:50.

Section II M W 1:10-2:25.

Section III Tu Th 9:10-10:25.

Section IV Tu Th 1:10-2:25.

y: Section I Tu Th 10:35-11:50.

Section II Tu Th 1:10-2:25.

S

ECO BC 1002x, ECO BC 1002y.

Introduction to Economics.

Basic concepts of economic analysis, with emphasis on resource allocation: determination of price and income distribution through

supply and demand, market structures, international economics, problems of developing nations, and alternative economic systems. (Microeconomic Principles)—Staff. *BC 1001 is not a prerequisite for BC 1002.*

Enrollment limited to 40 students per section.

See department for sign-up sheets.

3 points.

x: Section I Tu Th 4:10-5:25.

Section II Tu Th 10:35-11:50.

y: Section I Tu Th 2:40-3:55.

Section II Tu Th 10:35-11:50.

Section III M W 1:10-2:25.

Section IV M W 4:10-5:25.

S

ECO BC 2411x. Introduction to Applied Econometrics.

Elementary computational methods in applied econometrics. Basic techniques in regression analysis of econometric models. One hour weekly recitation sessions to complement lectures.—J. Dutta.

4 points. Tu Th 4:10-5:25.

CONTEMPORARY PROBLEMS COURSES

The analysis of contemporary problems using institutional and traditional approaches.

Prerequisite: An introductory course in economics or permission of the instructor.

ECO BC 2010x. Sex, Discrimination, and the Division of Labor.

An introduction to the role of women in the economy, including the productive uses of women's labor in the labor market, housework and childbearing; role of government and unions in structuring women's options, and some international comparisons.—C. Conrad.

3 points. *M W 1:10-2:25.* S

ECO BC 2013x. Economic History of the United States.

W. Lazonick

3 points. *Not offered in 1988-89.*

ECO BC 2014y. Topics in American Economic History.

Not offered in 1988-89.

3 points. S

ECO BC 2024y. Women in International Development.

An exploration of the critical issues related to Third World women as they have emerged over the past decade: the effects of development on poor urban and rural women; the relationship between women's productive and reproductive roles; the consequences of government and international efforts to "integrate women into development"; and women's responses to the economic crisis of the 1980s.—M. Crummett.

Not offered in 1988-89.

3 points. *M W 1:10-2:25.* S

ECO BC 2025x. World Economy.

Not offered in 1988-89.

3 points. S

ECO BC 2026y. Modern Capitalism.

Not offered in 1988-89.

3 points. S

ECO BC 2028x. Economic Development of Latin America.

An introduction to the main issues and problems confronting Latin American economies: An overview of theoretical approaches to the analysis of Latin American economic development; and specific socioeconomic problems—unemployment, income distribution and poverty, agrarian transformation, rural-urban migration, foreign aid and investment, the debt crisis, and adjustment and stabilization policies.—M. Crummett.

Not offered in 1988-89.

3 points. S

ECO BC 2057x. The War Economy.

The micro- and macroeconomics of military industry and its government management. Consequences for civilian industry and economy. Conditions of conversion from military to civilian economy.—S. Melman.

3 points. *M W 2:40-3:55.* S

SPECIALIZED COURSES

ECO BC 2412y. Econometrics Applications.

A weekly recitation section to develop practical applications of techniques learned in the first semester of statistics or introduction to applied econometrics. To develop a testable model, collect data, and determine an appropriate statistical test. (To be taken *only* in conjunction with one of a specified set of other courses at an upper level determined annually by the department.)—J. Dutta.

Prerequisites: BC 2411 or STA W 1111 and permission of the instructors in both courses.

1 point. *Hours to be arranged.*

ECO BC 3011x. Poverty and Income Distribution.

Prerequisite: Intermediate Micro- or Macroeconomic Theory or permission of the instructor.

Not offered in 1988-89.

3 points. S

ECO BC 3016x. Government Finance and Fiscal Policy.

Principles of government expenditure and taxation; alternative theoretical perspectives on government's role in a "mixed economy"; structure of U.S. tax system, with emphasis on tax incidence, the effects of taxes on economic behavior, and detailed analysis of selected policy issues.—C. Grandy.

Prerequisite: Intermediate Microeconomic Theory, or permission of the instructor.

3 points. *Tu Th 10:35-11:50.* S

ECO BC 3017y. Business Organization.

An introduction to the evolving nature of the business enterprise; the roles of labor, technology, management, and finance in the production and distribution of goods and services; the sources of productivity, profitability, and competitive advantage; the impact of business organization on national economic performance; the implications of business organization for alternative economic theories and for alternative economic policies.—W. Lazonick.

Economics

Prerequisites: Intermediate Microeconomic or Macroeconomic Theory or permission of the instructor.

3 points. Not offered in 1988-89. S

ECO BC 3018y. Econometrics.

Specification, estimation, and evaluation of economic relationships using economic theory, data and statistical inference; testable implications of economic theories; econometric analysis of topics such as consumption, investment, wages and employment, and financial markets.—J. Dutta.

Prerequisites: Intermediate Micro-or Macroeconomic Theory and BC 2411, or permission of the instructor.

4 points. Lecture Tu Th 10:35-11:50.

Laboratory Tu 2:10-4:00 or W 2:10-4:00. S

ECO BC 3019y. Labor Economics.

Prerequisite: Intermediate Microeconomic Theory or permission of the instructor.

Not offered in 1988-89.

3 points. S

ECO BC 3021y. The Regulation of Industry.

The economic effects of government regulation of industry; the history, structure, and organization of regulatory agencies; the theory of natural monopoly and public utility pricing; the costs and benefits of health and safety regulation; case studies of specific industries.—C. Conrad.

Prerequisite: Intermediate Microeconomic Theory.

3 points. Tu Th 1:10-2:25. S

ECO BC 3029x. The Economics of Underdeveloped Areas.

Theories of economic underdevelopment and development; selected problems in trade, foreign investment, technological change, industrialization, agriculture and state policy.—M. Crummett.

Prerequisite: Intermediate Micro-or Macroeconomic Theory or permission of the instructor.

3 points. Tu Th 2:40-3:55. S

ECO BC 3030y. Comparative Economic Systems.

Planned, market, and mixed economies; the concept of an economic system; ownership, resource allocation, focus of decision-making, and motivation; comparison of theoretical systems, examples of enterprise organization and national economic plan-

ning in the Soviet Union, Yugoslavia, Hungary, Japan, and the U.S.

—A. Soos.

Prerequisite: Intermediate Microeconomic Theory or permission of the instructor.

3 points. Tu Th 9:10-10:25. S

ECO BC 3033x, ECO BC 3033y.

Intermediate Macroeconomic Theory.

Systematic and analytically oriented exposition of current macroeconomic theories of unemployment, inflation and international financial adjustments. Weekly recitation section to complement lectures.

Prerequisites: An introductory course in economics and a functioning knowledge of high-school algebra and analytical geometry or permission of the instructor.

Primarily for majors in the Economics track.

4 points. Students may not take BC 3033 for credit in addition to BC 3034.

x: Tu Th 2:40-3:55.—A. Burgstaller.

y: M W 2:40-3:55.—Instructor to be announced. S

ECO BC 3034x. Intermediate Macroeconomic Theory.

Mainstream macroeconomic models (in less mathematical detail than in BC 3033). Economic theories concerning business cycles, unemployment, inflation, and the distribution of income. The aim of the course is to make students more familiar with the main schools of economic thought, so that they may better assess how well such theories illuminate contemporary issues. Weekly recitation section to complement lectures.—Instructor to be announced.

Prerequisite: An introductory course in economics or permission of the instructor.

Primarily for majors in the Political Economy track. Students may not take BC 3034 for credit in addition to BC 3033.

4 points. M W 1:10-2:25. S

ECO BC 3035x, ECO BC 3035y.

Intermediate Microeconomic Theory.

Behavior of markets, resource allocation, theories of production and cost, pricing of goods and services under alternative market structures, implications of individual decision-making for consumer demand and labor supply, income distribution, and welfare and public policy. Emphasis on problem solving. Weekly recitation section to complement lectures.

4 points.

Economics

x: Prerequisites: An introductory course in economics or permission of the instructor, 2 semesters of calculus for economists (Calculus IE, IIE) or 3 semesters of regular calculus (Calculus I, II, III) This section is primarily for students in the Economics track. —C. Grandy.

Tu Th 1:10-2:25

S

y: Prerequisites: An introductory course in economics and a functioning knowledge of high-school algebra and analytical geometry, or permission of the instructor. This section is primarily for students in the Political Economy track. —C. Conrad

M W 1:10-2:25.

S

ECO BC 3036y. Financial Markets.

Institutional nature and economic function of financial markets. Emphasis on both domestic and international markets (debt, stock, foreign exchange, eurobond, euro-currency, futures, options, and other). Principles of security pricing and portfolio management; the Capital Asset Pricing Model and the Efficient Markets Hypothesis; macroeconomic factors and asset returns. —C. Grandy.

Prerequisites: An introductory economics course and BC 2411 or the equivalent.

3 points. Tu Th 10:35-11:50.

S

ECO BC 3037x. Growth, Distribution and Money.

Classical theories of growth, distribution and their modern developments. The effects of distribution between wages and profits on long-term rates of economic growth. Relations between growth of money and finance and economic growth, and the theory of inflation. Multi-sectoral growth models, relative prices, the average rate of profit. Growth with limited resources. Non-steady-state models. Applications to the study of real economies. —D. Foley.

Prerequisites: Intermediate Macroeconomic and Intermediate Microeconomic Theory or permission of the instructor.

3 points. M W 2:40-3:55.

S

ECO BC 3041x, ECO BC 3041y. The Theoretical Foundations of Political Economy.

Intellectual origins of the main schools of thought in political economy. Classical political economy, Marxian economics, Neo-classicism, Keynesianism, and Monetarism. Theoretical controversies in twentieth-century political economy.

Prerequisite: An introductory course in economics or permission of the instructor.

3 points.

x: Tu Th 2:40-3:55. W. Lazonick.

y: Tu Th 1:10-2:25. P. Mehrling.

S

ECO BC 3042y. The Policy Applications of Political Economy.

Major policy perspectives within political economy; "laissez-faire" conservatism, middle-of-the-road reformism, and socialist revolution. Tools and concepts of welfare economics used to explore current policy issues: cost benefit analysis, distributional considerations, equity and efficiency concepts. —C. Conrad.

Prerequisite: Intermediate Microeconomic Theory.

3 points. Not offered in 1988-89.

S

ECO BC 3044y. U.S. Industrial Policy.

Not offered in 1988-89.

Prerequisite: Intermediate Micro-or Macroeconomic Theory.

3 points. Not offered in 1988-89.

S

Economics-History ECH BC 3056x.

History of Women's Work.

3 points. Not offered in 1988-89.

S

ECO BC 3061x, ECO BC 3062y. Senior Research Seminar.

Discussions and conferences on the researching and writing of the senior essay. —Staff.

Prerequisites: BC 3033, BC 3035, BC 3041, BC 2411 or W 1111, BC 3018 or BC 2412, and 2 electives which require an Intermediate Micro-or Macroeconomic Theory course as a prerequisite, or BC 3034, BC 3035, BC 3041, an upper-level Political Science course, and 3 electives which require an Intermediate Micro-or Macroeconomic Theory course as a prerequisite. See department for application forms.

4 points. Hours to be arranged.

ECO BC 3063y. Seminar: Topics in Economic Theory.

P. Mehrling.

Prerequisite: Intermediate Micro-or Macroeconomic Theory and permission of the instructor. Enrollment limited to 15 students per section.

4 points. Tu 4:10-6:00.

ECO BC 3064y. Seminar: Topics in Economic Policy.

C. Grandy.

Prerequisites: Intermediate Micro-or Macroeconomic Theory and permission of the instructor.

4 points. Tu 2:10-4:00.

Economics

ECO BC 3065y. Seminar in Business Organization.

W. Lazonick.

Prerequisites: *Intermediate Microeconomic Theory or BC 3044 and permission of the instructor.*

4 points. W 2:10-4:00.

ECO BC 3099x, ECO BC 3099y. Independent Study.

Staff.

Points to be arranged.

Hours to be arranged.

ECO W 4258y. Worker Management.

Prerequisite: *Intermediate Micro- or Macro-economic Theory or permission of the instructor.*

Not offered in 1988-89.

3 points.

S

ECO W 4430y. Marxist Economic Theory.

Critical examination of Marxist economic theory, using Marx's texts and more recent Marxist writings. Application of Marxist ideas to current economic problems. Labor theory of value. Marx's theory of money, class and exploitation, the expanded reproduction of capital, productive and unproductive labor, rent, the rate of profit.—A. Soos

Prerequisite: *An introductory economics course or a previous course on Marx or permission of the instructor.*

3 points. M W 2:40-3:55.

S

ECO W 4431y. Advanced Topics on Marxist Economics.

Prerequisite: *W 4430 or the equivalent, or permission of the instructor.*

Not offered in 1988-89.

3 points.

ECO W 4524y. Economic Organization of Eastern Europe.

Organization and performance of Soviet-type economics; pressure for change; comparison of reforms in Yugoslavia, Eastern Europe and the Soviet Union.—D. Milenkovitch.

Prerequisite: *Intermediate Micro-or Macroeconomic Theory or permission of the instructor.*

3 points. Tu Th 2:40-3:55.

S

The following courses are described in the bulletin of Columbia College. Graduate courses are open to qualified undergraduates with the instructor's permission.

ECO W 3020y. Economics of Information, A. Siow.

Prerequisites: *calculus, statistics, and intermediate microeconomics.*

3 points. M W 9:10-10:25.

ECO W 3022y. Economics of Finance, A. Siow.

Prerequisites: *calculus, statistics, and intermediate microeconomics.*

3 points. Tu Th 10:35-11:50.

ECO W 3228y. The Urban Economy.

R. Braid.

Prerequisite: *W 3211.*

3 points. Tu Th 1:10-2:25.

S

ECO W 3251x, y. Industrial Organization.

x: S. Sklivas; y: J. Kambhu.

Prerequisites: *W 1105 and W 3211.*

3 points. x: M W 11:00-12:15.

y: Tu Th 6:10-7:25.

ECO W 3261x, ECO W 3261y. Introduction to Accounting and Finance.

Section I: Katharine Morgan.

Section II: L. Schier.

4 points.

Section I M W 7:10-9:00 p.m.

Section II Tu Th 12:10-2:00.

(Note: Only one course in accounting will be credited toward the Bachelor of Arts degree.)

ECO W 3321y. Economic Development.

J. Nakamura.

Prerequisite: *Economics W 1105 or the equivalent.*

3 points. Tu Th 6:10-7:25.

S

ECO W 3411x, y. Labor Economics.

x: A. Siow.

y: Instructor to be announced.

Prerequisite: *W 3211.*

3 points. x: Tu Th 9:10-10:25.

y: Tu Th 10:35-11:50.

ECO W 3412y. Econometrics.

A. Zaman.

Prerequisites: *Statistics W 1111 or the equivalent, Mathematics V 1111, V 1112 and W 3211 or W 3213.*

3 points. M W 11:00-12:15.

S

ECO W 3414y. Introduction to Mathematical Economics.

G. Chichilnisky.

Prerequisites: *Mathematics V 1111-V 1112 or the*

Economics

equivalent with the instructor's permission, and W 3211.
 3 points. M W 1:10-2:25. S

ECO W 3711x, y. Monetary Economics and Policy.

x: P. Cagan.
 y: P. Mosser.
Prerequisite: W 3213.
 3 points.
 x: Tu Th 1:10-2:25
 y: M W 4:10-5:25. S

ECO W 3863x. Public Economics.

D. Holtz-Eakin.
Prerequisite: W 3211.
 3 points. Tu Th 2:40-3:55. S

ECO W 3904x, y. International Trade.

Prerequisite: W 3211.
 3 points.
 x: Section I Tu Th 2:40-3:55. A. Collery.
 Section II M W 11:00-12:15. R. Findlay.
 y: Tu Th 2:40-3:55. Instructor to be announced. S

ECO W 3905x, y. International Monetary Theory and Policy.

x: E. Zupnick; y: R. Mundell.
Prerequisite: W 3213.
 3 points.
 x: Tu Th 9:10-10:25.
 y: Tu Th 2:40-3:55. S

ECO W 4311x. Economic History of the United States.

M. Edelstein.
Prerequisite: W 3211 or the equivalent.
 3 points. Th 4:10-6:00. S

ECO G 4313x. Economic History of Europe.

M. Edelstein.

Prerequisite: W 3211 or the equivalent.
Not offered in 1988-89.
 3 points. S

ECO G 4324x. Economic History of Japan.

J. Nakamura.
Prerequisite: W 1105 or the equivalent.
 3 points. Tu 4:10-6:00. S

ECO G 4325y. Economic Organization and Development of Japan.

H. Patrick.
Prerequisites: W 1105 or the equivalent and the instructor's permission.
 3 points. Tu 4:10-6:00. S

ECO W 4337x. Economic Organization and Development of the Middle East.

V. Nowshirvani.
Prerequisite: W 1105 or the equivalent.
 3 points. Th 2:10-4:00. S

ECO W 4450y. The Economics of Natural Resources.

R. Braid.
Prerequisites: W 3211 or the equivalent, and one year of calculus.
 3 points. Tu Th 2:40-3:55. S

ECO G 4527y. Economic Organization and Development of China.

C. Riskin.
Prerequisite: W 1105 or the equivalent.
 3 points. M 4:10-6:00. S

ECO G 4801y. Economic Setting for Public Policy Making.

H. Watts.
Primarily for candidates for the degree of Master of Public Administration.
 3 points. Tu 2:10-4:00 S

Education

Office: 336B Milbank

Telephone: 280-2117, 5408, 5417

Senior Lecturer

Susan Riemer Sacks (Program Director)

Instructors

Giselle Harrington, Michele Puma

Associates

Katherine Knight Wilcox

This program is supervised by the Committee on Education:

Professor of English

Remington Patterson

Professor of Spanish

Mirella Servodidio

Associate Professor of Psychology

Peter Balsam

Associate Dean of Columbia College

Michael Rosenthal

Dean of Students, School of General Studies

David Lelyveld

Professor of History and Education, Teachers College

Hazel Hertzberg

The Barnard Education Program is open to Barnard, Columbia, and General Studies students who are interested in teaching children or adolescents on the elementary or secondary level, who are considering working with young people or adults in human service agencies, or who are preparing for careers related to education. The Education Program concentration is taken in conjunction with a major in an approved field of study and may constitute a minor. Interested students should consult with the Education Program faculty.

Applicants are accepted on the basis of good academic standing, evidence of interest in the field of education, and capacity for growth in areas vital to the teaching-learning experience. Students may apply for admission during the sophomore year, and applications are available in the Program office at the beginning of the Autumn Term.

The Education Program is approved by the New York State Education Department. Graduates of the Program are recommended for New York State Provisional Certification which makes them eligible for membership in the Interstate Certification Agreement, a reciprocal certification arrangement among thirty-one states. Consistent with the program requirements, certification is based on demonstration of competency in both academic and field settings. Students must pass the National Teachers Exam as part of the certification process.

Elementary School Program

This track leads to the New York State Provisional Common Branch Certificate (N-6). Students participating in the elementary program must complete the following course of study:

One Psychology course, chosen from among:

Psychology BC 1105

Psychology BC 1127 or BC 1129

Psychology BC 1130 or BC 1132

Psychology BC 1134

Psychology of Learning

Developmental Psychology

Human Memory and Learning

Educational Psychology

One Foundations course, chosen from among:

Philosophy V 3758

Sociology V 3225

Philosophy of Education

Sociology of Education

Education

Education BC 2032
History BC 3461

Contemporary Issues in Education
Education in American History

A third course from either of the above categories; and One methods course
Education BC 2052

Seminar in Methods of
Elementary School Teaching

During the Spring Term, of their junior year, all students entering the elementary education program take Education BC 2052, which involves a classroom internship one morning per week.

Secondary School Program

Programs leading to the New York State Provisional Secondary Certificate (7-12) are offered in the fields of English, Foreign and Ancient Languages, Mathematics, the Sciences, and Social Studies. Students participating in the secondary program must complete the following course of study:

One Psychology course, chosen from Psychology BC 1105, BC 1127 or BC 1129, BC 1130 or BC 1132, or BC 1134; and

One Foundations course, chosen from Philosophy V 3758, Sociology V 3225, Education BC 2032, or History BC 3461; and

One methods course:

Education BC 2062

Seminar in Secondary School
Curriculum Development

All students entering the secondary education program take this methods course which covers principles and methods for teaching English, Social Studies, the Sciences, Mathematics, and Ancient and Foreign Languages, and which includes a classroom internship one morning per week.

All senior students in the Elementary or Secondary Education Program enroll concurrently in the following two courses:

Education BC 3063

Teaching in the Elementary or
Secondary Schools

Education BC 3063 is the field-based student teaching experience which places students in a classroom five mornings a week for one semester. Student teaching provides the opportunity to develop curricular materials and, with close supervision, to implement them through practice teaching.

Education BC 3064

Seminar in the Teaching-Learning
Process

Education BC 3064, is a weekly seminar which provides a forum for discussions of the principles and practices of classroom teaching. The student examines the teaching experience and the interrelationships between the subject area, child and adolescent development, the role of the school in society, and the teacher as a decision-maker.

Student teaching and the seminar should be registered as Education BC 3063x and BC 3064x in the Autumn Term, or Education BC 3063y and BC 3064y in the Spring term. It is strongly advised that no more than two other courses be taken in addition to student teaching and the seminar. No student with incompletes may student teach.

Senior year student teaching may conflict with other training opportunities at Barnard (e.g. Psychology BC 3465, BC 3466, assisting at the Center for Toddler Development). Students with these interests should arrange their schedules appropriately.

Requirements for the Minor

The minor requires a minimum of 5 courses: Education BC 3063, Education BC 3064, one Methods course, one Foundations course, and one Psychology course from those courses cited above.

Education

COURSES OF INSTRUCTION

EDU BC 2032x. Contemporary Issues in Education.

Study of controversial topics confronting education in the 1980's and their relation to contemporary society. Equity in learning experiences for girls and boys, the disabled, bilingual and gifted students, will be examined. The impact of computers, technology, and values teaching on schooling will be addressed. Observation in classroom required.—S. Sacks.

4 points. W 2:10-4:00.

EDU BC 2052y. Seminar in Methods of Elementary School Teaching.

Methods of teaching reading and mathematics and techniques for integrating the core subjects into the elementary curricula examined through the experience of working with children in an elementary school classroom and the weekly Barnard seminar. Students serve an internship one morning a week in elementary classrooms.—K. Wilcox.

This course should be taken in the Spring Term of the junior year. It is a prerequisite to student teaching in the elementary grades. Open to Education Program applicants and others with permission of instructor.

4 points. W 2:30-4:30.

EDU BC 2062y. Seminar in Secondary School Curriculum Development.

Theory and practice of developing secondary school curricula through classroom observations and participation in weekly seminar. Emphasis on analysis of pedagogical strategies appropriate to specific disciplines. Students serve an internship one morning a week in a secondary classroom.—G. Harrington.

This course should be taken in the Spring Term of the junior year.

Prerequisite to student teaching in the secondary schools. Open to Education Program applicants and others with permission of the instructor.

4 points. W 2:30-4:30

EDU BC 3063x, EDU BC 3063y. Teaching in the Elementary or Secondary Schools.

Student teaching: classroom teaching in elementary or secondary schools and exploration of the interrelation between process, content, and values in the educational experience. (Student teaching requires a

minimum of 20 class periods per week, each morning for one semester of the senior year.) —Staff.

Prerequisite: Admission to Education Program. Corequisite: BC 3064. Both BC 3063 and BC 3064 are required for teaching certification. Enrollment limited to 30 students per year. 4 points.

EDU BC 3064x, EDU BC 3064y. Seminar in the Teaching-Learning Process.

Examination of principles of classroom teaching and educational process in our society. This seminar accompanies student teaching and provides guidelines for teaching reading and subject areas and workshop experiences related to the learning situations. Teaching skills are developed through individual supervision, conferences, and videotaping.—S. Sacks.

Prerequisite: Admission to Education Program. Corequisite: BC 3063.

Enrollment limited to 30 students per year. 4 points. M 2:10-4:00.

History HIS BC 3461y. Education in American History.

A consideration of the place educational institutions, educational ideas, and educators have played in American life. Emphasis will be on the connection between education and social mobility.—T. Gilfoyle.

Prerequisite: Permission of the instructor. 4 points. M 4:10-6:00.

Philosophy PHI V 3758x. Philosophy of Education.

Philosophical presuppositions of intellectual and moral education. Selected readings from Plato, Rousseau, Piaget, Dewey, Israel, Sheffler, and current periodical literature.—R. Tragesser.

Not open to freshmen.

3 points. Tu Th 1:10-2:25.

Sociology SOC V 3225y. Sociology of Education.

Social organization of education in the United States, with emphasis upon primary and secondary schools: the school as a complex organization; the classroom as a learning environment; social factors in academic aspirations and achievement; selected innovations in educational practices; and problems in the relations between the school and the community.—H. Zuckerman.

Permission of the instructor required. 3 points. Tu Th 1:10-2:25.



English

Office: 417 Barnard Hall

Telephone: 280-2116

Professors

Maire Jaanus, Ruth M. Kivette,¹ Joann Ryan Morse, Remington Patterson, Anne Lake Prescott (Chairman)

Visiting Professor

Robert G. O'Meally

Adjunct Professors

Paul Berman (Theatre), Marjorie Housepian Dobkin, Mary Gordon

Associate Professors

James Basker (Director of Freshman English and Major Advising), Elizabeth Dalton (Writing)

Adjunct Associate Professors

Annalita Alexander, Ann Birstein, Frank Brady, Diana Chang, Norma Rosen

Assistant Professors

Christopher Baswell,² Kathryn Humphreys, Cary Plotkin, Celeste Schenck, Aaron Schneider, William Sharpe,³ Timea Szell

Adjunct Assistant Professors

Elizabeth Socolow, Elizabeth Swain

Associates

Elizabeth Caughran (speech), Quandra Prettyman

Lecturers

Constance Brown, Erik Ryding, Anita Soloway

Instructors

Cindy Carlson, Constance Colby, John Pagano, James Runsdorf, Wendy Steiner, Margaret Thompson

Assistant

Constance Budelis

¹ Absent on leave, 1988-89.

² Absent on leave, Autumn Term.

³ Absent on leave, Spring Term.

The offering in English is designed to foster good writing, effective speaking, and heightened understanding of literary works that enrich our cultural heritage.

Students majoring in English are encouraged to develop their responsiveness to the literary imagination and their sensitivity to literary form through disciplined attention to language and to critical and scholarly methods.

Non-majors may satisfy the distribution requirement in literature by electing appropriate courses listed under LANGUAGE AND LITERATURE.

REQUIREMENTS FOR THE MAJOR

A major program consists of at least ten courses in sequence:

1. In the sophomore or junior year, the student will complete three required courses: an introduction to the methods of literary analysis (BC 3193, *Critical Writing*), and an introduction to literary works of the Renaissance and the Enlightenment (BC 3159-BC 3160, *The English Colloquium*).

2. In addition, she will elect five advanced courses so distributed as to extend her knowledge of English and American literature of different periods. Two of these courses must be in literature before 1900 (BC 3154-BC 3179). She may select two of the five from courses BC 3103-BC 3145.

3. As a senior, she will complete advanced work in two seminars (BC 3997, BC 3998). For *one* of these seminars, a qualified senior major may request permission to substitute a Special Project in Writing, Speech, or Theatre (see BC 3996x, BC 3996y) or Independent Study (see BC 3999x, BC 3999y).

REQUIREMENTS FOR THE MINOR

A minor consists of at least five English courses: BC 3154 or BC 3155, *Chaucer*, or BC 3163 or BC 3164, *Shakespeare*, or BC 3167, *Milton*; two additional courses in literature before 1900 (BC 3154-BC 3179); and two electives.

Program in the Arts: Students interested in this Program should see the announcement on page and should consult with the Program Chairman or a member of the Program Committee.

COURSES OF INSTRUCTION

INTRODUCTORY

ENG BC 1201x, y. Freshman English.

Practice in reading and writing through close examination of texts, regular assignments in composition, and discussion; frequent individual conferences with the instructor.—Director and Staff.

Prescribed for all freshmen. May not be taken for pass/fail.

3 points.

Consult Department bulletin board for section times.

ENG BC 1202x, y. Special Studies in Writing.

For students who want additional work in writing. Class workshop, individual assignments, weekly conferences. Section 1 (Autumn Term): primarily for students whose first language is not English.—C. Colby.

Permission of the instructor required. May only be taken for pass/fail.

3 points.

x: Section I M W 12:00-12:50.

Section II M W 1:10-2:00.

y: Section I M W 12:00-12:50.

WRITING

Registration in each course is limited and the written permission of the instructor is required; signed departmental registration blanks are to be filed with Mrs. Budelis (417 Barnard Hall). Two writing courses may not be taken concurrently.

ENG BC 3103x, ENG BC 3104y.

Exposition.

Sections I and II (Autumn and Spring Terms): English composition above the first-

year level. Techniques of argument and effective expression. Weekly papers. Individual conferences. Section III (Spring Term): Journalism and popular writing; methods of news writing and news judgment.

3 points.

x: Section I M 2:10-4:00. Q. Prettyman.

Section II W 12:00-1:50. J. Runsdorf.

y: Section I M 2:10-4:00. Q. Prettyman.

Section II W 12:00-1:50. J. Runsdorf.

Section III W 2:10-4:00. F. Brady.

ENG BC 3105x, BC 3106y. Fiction and Non-Fiction.

Short stories and personal narrative.

Prerequisite: Demonstration of some creative writing ability.

3 points.

x: Section I Th 4:10-6:00. M. Dobkin.

y: Section I W 2:10-4:00. E. Dalton.

Section II Th 4:10-6:00. T. Szell.

ENG BC 3107x, BC 3108y.

Experiments in Writing.

Work in various styles and forms, with emphasis on the novel in Section I (Autumn and Spring Terms) and on fiction and poetry in Section II (Spring Term).

3 points.

x: Section I Tu 2:10-4:00. A. Birstein.

y: Section I Tu 2:10-4:00. A. Birstein.

Section II Th 2:10-4:00. D. Chang.

ENG BC 3110x. Poetry Writing.

Varied assignments designed to confront the difficulties and explore the resources of language through imitation, allusion, free association, revision, and similar techniques.—E. Socolow.

3 points. W 4:10-6:00.

English

ENG BC 3111x, BC 3112y. Story Writing.

Advanced work in writing, with emphasis on the short story.—x: M 4:10-6:00. M. Gordon. y: W 4:10-6:00. N. Rosen.

Prerequisite: Some experience in the writing of fiction.

3 points.

Conference hours to be arranged.

ENG BC 3113x, 3114y. Dramatic Writing.

Studies in playwriting: reading, analysis, and practice. Autumn Term only.—A. Alexander.

3 points. Tu 4:10-6:00.

SPEECH

Registration in each course is limited, and to elect any course in speech a student must secure the written permission of the instructor.

ENG BC 3121x. The Uses of Speech.

Training in voice production and clear articulation. Designed to improve the student's speech through drill, practice in reading aloud, the presentation of oral reports, and extemporaneous speaking.—E. Caughran.

3 points. Tu Th 2:40-3:55. Conferences with the instructor to be arranged.

ENG BC 3124y. Oral Interpretation of Literature.

Study of literary texts for oral performance. Fictive prose and poetry, with class projects exploring reading modes from informal presentation to reader's theatre.—E. Caughran.

Not offered in 1988-89.

3 points.

ENG BC 3127x. Public Speaking.

Study of basic principles of informal and formal speaking, with emphasis on the selection and organization of materials, on audience psychology, and on effectiveness of delivery.—E. Caughran.

3 points. Tu Th 10:35-11:50.

ENG BC 3128y. Persuasive Speaking.

Theory and practice of persuasive speaking; use of evidence and opinion, logic, and audience motivation in presentation of controversial views and current issues.—E. Caughran.

Not offered in 1988-89.

3 points.

THEATRE

Registration in each course is limited. Students may sign up for theatre courses outside the Theatre Office, Room 230, Milbank Hall.

ETR BC 3131y. History of Theatre: The Greeks to Shakespeare.

Study of theatre literature and practice in the Greek and Roman periods through the Middle Ages and the Renaissance to the Restoration in England and France.—P. Berman, E. Swain.

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55.

H

ETR BC 3132x. History of Theatre: Shakespeare to the 19th Century.

Study of theatre literature and practice from the Elizabethan period to the nineteenth century. Focus on Shakespeare and Spanish and French drama of the period.—P. Berman, E. Swain.

Enrollment limited to 40 students.

Not offered in 1988-89.

3 points.

H

ETR BC 3133x. History of Theatre: Modern Period.

Major developments of the modern period in drama, scenic approaches, stage directing and acting. Topics include the work of Stanislavski, Meyerhold, Artaud, Brecht, Grotowski, and Brook, the innovations of Craig, Appia, and Copeau, and the drama of Chekov, Ibsen, Strindberg, Shaw, and other playwrights up to modern times.—P. Berman, E. Swain.

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55.

H

ETR BC 3134x. Special Seminar in Contemporary British Political Theatre.

An examination of plays and production approaches employed by the post-1968 British political theatre movement, focusing on such authors as Bond, Hare, Edgar, Poliakov, Keefe, and Churchill. Antecedents such as Shaw and Brecht will be discussed to provide a broader context in order to explore methodology and the social climate conducive to political theatre.—E. Swain.

Prerequisite: One semester of theatre history or permission of the instructor. Offered in alternate years. Not offered in 1988-89.

3 points.

H

LANGUAGE AND LITERATURE

ENG BC 3140x, y. Seminars on Special Themes.

Registration is limited.

3 points.

English

ENG BC 3140x. II. Explorations of Black Literature.

Readings from the eighteenth century to the early twentieth century with special emphasis on the slave narrative. Writers include Equiano, Wheatley, Douglass, Jacobs, Harper, Walker, Garnet, Chesnutt, and DuBois.—Q. Prettyman.

Tu Th 1:10-2:25. H

III. The City in Literature.

New York as subject and symbol in the work of Whitman, Melville, James, Crane, Ellison, Plath, and others. Special attention given to related developments in art, architecture, and photography.—W. Sharpe.

Tu Th 2:40-3:55. H

ENG BC 3140y. V. Fable and Fantasy.

Selected works by nineteenth- and twentieth-century authors. Lewis Carroll, Ursula LeGuin, C. S. Lewis, and others. Their use of religious and philosophical fable, nonsense, and paradox; their creation of other worlds.—A. Prescott.

M W 1:10-2:25. H

XII. Afro-American Literature and the Vernacular.

A study of the forms and functions of Afro-American folktales, spirituals, and blues and their influence on the works of such writers as Chesnutt, Hurston, Walker, Ellison, Morrison, and Murray.—R. O'Meally.

Tu Th 10:35-11:50. H

ENG BC 3141x, BC 3142y. Major English Texts.

A general view of the history and variety of English literature through study of selected writers and their works. Autumn: Chaucer through Milton.—R. Patterson. Spring: Dryden through Eliot.—A. Schneider.

Not offered in 1988-89.
3 points. H

English-Women's Studies EWS BC 3144y.

Minority Women Writers in the United States.

A study of the literature of twentieth-century minority women writers in the United States, with particular emphasis upon the works of Asian, Black, Hispanic, and Native American women. The works will be studied within a historical and cultural as well as literary framework.—Q. Prettyman.

Permission of the instructor.
3 points. Tu Th 2:40-3:55. H

ENG BC 3154x. The Early Chaucer.

Book of the Duchess, Hous of Fame, Legend of Good Women, and Parlement of Foules, with emphasis on *Troilus and Criseyde*; related texts by other writers.—T. Szell.

Alternate years. Offered in 1989-90.
3 points. H

ENG BC 3155y. Chaucer.

The Canterbury Tales.—C. Baswell.

3 points. M W 10:00-10:50 and a third hour to be arranged. H

ENG BC 3158y. Medieval Literature.

English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation.

Alternate years. Offered in 1989-90.
3 points. H

ENG BC 3159x-3160y. The English Colloquium.

Major writers and literary works of the Renaissance and the Enlightenment examined in terms of leading ideas in those periods.

Required of majors in the junior year.
4 points.

I. Imitation and Creation.

New ideas of the mind's relation to the world. New perspectives, the emergence of new forms, experimentation with old forms, and the search for an appropriate style.—J. Morse.

M 2:10-4:00.

II. Reason and Imagination.

Relationship of the subjective and objective vision; reasons and irrational states; portraits of the artist; the shift from authority to perception and from public to private forms.—C. Plotkin.

Tu 2:10-4:00.

III. Skepticism and Affirmation.

Humanism, reformation, and revolution; the limits of human knowledge; the problem of evil; visions of perfection; reason and revelation.

x: R. Patterson.

y: J. Basker.

W 2:10-4:00.

V. Appearance and Reality.

The discovery of inner, outer, and other worlds in literature: reality masked and unmasked; art, artifice, and nature; irrational states and the experience of theatre.—C. Schenck.

Th 4:10-6:00.

English

ENG BC 3163x, ENG BC 3164y. Shakespeare.

A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare.—R. Patterson.

3 points. M W 11:00-12:15. H

ENG BC 3165x. The Elizabethan Renaissance.

Literature in the age of Elizabeth I. Sidney, Spenser, Shakespeare, and their contemporaries. Songs, the love sonnet, prose fiction, satire. Some attention to music and visual imagery.—E. Ryding.

3 points. M W 2:40-3:55. H

ENG BC 3166x. Seventeenth-Century Prose and Poetry.

Classical traditions, Christian beliefs, the new science and the literary imagination: thought and style in English literature from Bacon, Donne, and Jonson to Marvell, Bunyan, and Dryden.—R. Kivette.

Alternate years. Offered in 1989-90.
3 points. H

ENG BC 3167y. Milton.

Close reading and critical study of *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*, with some attention to minor poems and prose.—R. Kivette.

Not offered in 1988-89.
3 points. H

ENG BC 3169y. English Drama: 900-1642.

English drama from its beginnings to the closing of the theatres. Medieval plays, the Tudor interlude, the major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe, Jonson, and Webster.—R. Patterson.

3 points. M W 2:40-3:55. H

ENG BC 3171y. The Novel.

The central English tradition, including works by Defoe, Richardson, Fielding, Sterne, Austen, Bronte, Dickens, George Eliot, and Hardy.—M. Jaanus.

3 points. Tu Th 10:35-11:50. H

ENG BC 3173x. Eighteenth-Century Literature, 1660-1740.

Tradition and innovation in satire, drama, the periodical essay, and the novel; readings in Dryden, Rochester, Behn, Pope, Swift, Defoe, Bunyan, Richardson, Fielding, and Gay.—J. Basker.

3 points. Tu Th 9:10-10:25. H

ENG BC 3174x. Eighteenth-Century Literature, 1740-1800.

Tradition and innovation in a variety of forms, including works by Johnson, Boswell, Goldsmith, Sheridan, Fielding, Sterne, Wollstonecraft, Burns, and Blake.—J. Basker.

Alternate years. Offered in 1989-90.
3 points. H

ENG BC 3176x. English Romanticism.

The thought and style of Wordsworth, Coleridge, Byron, Keats, and Shelley in their intellectual context.—C. Plotkin.

3 points. M W 1:10-2:25. H

ENG BC 3177y. The Victorian Age in Literature.

Prose and verse on problems of society and religion. Carlyle, Mill, Ruskin, Arnold, Newman, Huxley, Tennyson, Browning.—W. Sharpe.

Alternate years. Offered in 1989-90.
3 points. H

ENG BC 3178y. Victorian Poetry and Criticism.

Poems by Tennyson, Browning, Arnold, Rossetti, Meredith, Morris, and Swinburne; some paintings by the Pre-Raphaelites and others; critical opinions of Ruskin, Arnold, Pater, and Wilde.—C. Plotkin.

3 points. M W 1:10-2:25. H

ENG BC 3179x. American Literature before 1865.

The formation and development of American literary traditions. Writers include: Bradstreet, Edwards, Irving, Cooper, Emerson, Thoreau, Poe, Hawthorne, Melville, Stowe.—K. Humphreys.

3 points. Tu Th 1:10-2:25. H

ENG BC 3180y. American Literature, 1865-1914.

Realism, naturalism, and the beginnings of modernism in American literature viewed through the perspective of myth and ideology. Writers include Dickinson, Whitman, Twain, DuBois, James, Chopin, Chesnutt, Wharton, and Williams.—R. O'Meally.

3 points. Tu Th 1:10-2:25. H

ENG BC 3181x. American Fiction.

American fiction of the nineteenth and twentieth centuries. Works by Melville, Hawthorne, James, Cather, Wharton, Hemingway, Faulkner, and others.

Not offered in 1988-89.
3 points. H

ENG BC 3182x. American Literature, 1914 to the Present.

Modernism and post-modernism in American literature. Writers include Hemingway, Eliot, Faulkner, Hurston, Hayden, Morrison, and Reed.—R. O'Meally.

Tu Th 10:35-11:50. H.
3 points.

ENG BC 3185x. Modern British and American Poetry.

The aims, styles, and influences of the Modernist movement in poetry. Works by Yeats, Eliot, Pound, Stevens, Williams, and others.—W. Sharpe.

3 points. Tu Th 10:35-11:50. H

ENG BC 3186y. Modern Drama.

The modern theatre and its makers from Ibsen to the present.—E. Dalton.

3 points. Tu Th 2:40-3:55. H

ENG BC 3187y. American Writers and Their Foreign Counterparts.

Selected nineteenth- and twentieth-century American, European, and English works. Flaubert, James, Proust, Gide, Faulkner, and others.—E. Dalton.

Alternate years. Offered in 1989-90. H
3 points.

ENG BC 3188x. The Modern Novel.

Works by Hardy, James, Conrad, Lawrence, Joyce, and others.—J. Morse.

3 points. M W 11:00-12:15. H

ENG BC 3189x. Post-Modern Literature.

Writers since 1945, primarily English and American, and concepts of post-modern culture. Readings include Beckett, Borges, Pinter, Nabokov, Barthelme, and others.—E. Dalton.

3 points. Tu Th 2:40-3:55. H

ENG BC 3191x, y. The English Conference.

Various topics presented by visiting scholars in courses that will meet for three or four weeks at the beginning of each semester. Topics and instructors, with hours of meeting, will be announced by the department.—Visiting faculty.

To be taken only for pass/fail.
1 point.

ENG BC 3193x, y. Critical Writing.

The purpose of the course is to provide experience in the reading and analysis of literary texts and some knowledge of con-

spicuous works of literary criticism. Frequent short papers. All English majors are required to take course BC 3193 before the end of the junior year. Sophomores are encouraged to take it in the Spring Term before they officially declare their major. Transfer students should plan to take BC 3193 in the Autumn Term.—Staff.

Registration in each section is limited.

4 points

x: I M 4:10-6:00.

II Tu 2:10-4:00.

III W 2:10-4:00.

IV W 4:10-6:00.

V Th 2:10-4:00.

y: I M 2:10-4:00.

II Tu 2:10-4:00.

III W 2:10-4:00.

IV W 4:10-6:00.

V Th 4:10-6:00.

ENG BC 3996x, y. Special Project in Writing, Speech, or Theatre.

A senior major who has completed two courses in writing, speech, or theatre with distinction and who wishes to substitute a special project for one of the required senior seminars may request permission to register for a third course in her special field (3 points) and for BC 3996x or BC 3996y (1 point).

Registration is limited.

Written permission of the instructor and of the department chairman is required.

1 point.

ENG BC 3997x, ENG BC 3998y. Senior Seminars: Studies in Literature.

Required of all majors, these seminars are designed to broaden knowledge of periods, writers, works, genres, and theories through readings, class discussion, oral reports, and at least two research papers, one in BC 3997 and one in BC 3998. Students must have the written permission of the instructor.

Enrollment limited to seniors. 4 points.

ENG BC 3997x. I. Studies in Tragedy: The Death of the Hero.

Greek, Elizabethan, classical French, and modern works, read in conjunction with important theories of tragedy: Aristotle, Nietzsche, Frazer, Freud, and Artaud.—E. Dalton.

W 2:10-4:00.

English

X. Women in Literature.

A study of the ways in which female experience has been imagined in poetry, fiction, and drama, in the context of feminist critical theory and the new interdisciplinary scholarship on women. —C. Schenck.

Tu 4:10-6:00.

XII. Studies in Comedy.

The English comic tradition, with emphasis on nineteenth- and twentieth-century writers. —J. Morse.

Th 2:10-4:00.

XVIII. The Body and Language.

An examination of various discourses on the body and their cultural, symbolic significance. Nietzsche, Freud, Lawrence, Mann, Merleau-Ponty, Lacan, Foucault, Artaud, and others. —M. Jaanus.

Tu 2:10-4:00.

XIX. Text and Context: Troilus and Cressida.

A study of the shifts in representation and interpretation of the legend of Troilus and Cressida from Chaucer to Shakespeare. —T. Szell.

Th 4:10-6:00.

XX. Image and Word.

The interaction between literature and the visual arts, with particular attention to photography and film. Emphasis on problems of authenticity and imitation. —K. Humphreys.

W 4:10-6:00.

XXI. Writers on War.

Perceptions of war: glorification, protest, and despair. Focus on British writing about World War I; some attention to wars as early as Troy, as recent as Vietnam. —C. Brown.

M 2:10-4:00.

XXII. The Harlem Renaissance and Beyond.

The seminar will consider how best to define the Renaissance and its impact on the writers of the 1930s and 1940s. Writers include Locke, Fauset, Brown, Hughes, Wright, and DuBois. —R. O'Meally.

W 2:10-4:00.

ENG BC 3998y. I. Medieval Literature.

C. Baswell.

Tu 4:10-6:00.

II. Renaissance Literature.

R. Patterson.

Tu 2:10-4:00.

III. Restoration and Eighteenth-Century Literature.

J. Basker.

M 2:10-4:00.

IV. Romantic Literature.

J. Morse.

Th 2:10-4:00.

V. Victorian to Modern Literature.

C. Plotkin.

W 4:10-6:00.

VI. Modern Literature.

M. Jaanus.

Th 4:10-6:00.

VII. American Literature.

K. Humphreys.

W 2:10-4:00.

ENG BC 3999x, ENG BC 3999y. Independent Study.

A senior major who wishes to substitute Independent Study for *one* of the two required senior seminars should consult Professor Basker about qualifications and requirements. *Registration is limited.*

Written permission of the instructor and of the department chairman is required.

4 points.

Environmental Science

Office: 334 Milbank

Telephone: 280-5120, 3589

Adjunct Assistant Professors

Richard Bopp (Chairman), Carole Swick

Lecturers

Peter Bower, Eric Katz

Other officers of the University offering courses listed under Environmental Science:

Professors

James Hays, James Simpson

Assistant Professor

P.E. Olsen

Adjunct Associate Professor

P.N. Froelich

Lecturers

Anthony Del Genio, Miklos Pinther, Helene Wilson

Environmental Science studies the energy and material levels and pathways of natural earth systems in order to assess the effect of exceedances of these levels caused by the inadvertent impacts of human technologic systems, such as the exposure to radioactive materials, release of toxic substances, carbon dioxide build-up, elimination of species, and despoliation of the landscape. It provides a rational scientific basis for the management of earth space and resources. Environmental Science combines the traditional sciences into a holistic view of natural systems, especially with regard to their connections to human designed systems. While dependent on the findings of the natural sciences to describe the separate pieces of environmental systems, it uncovers convergent relations that reflect coherences among the disciplines. The holism of environmental science is a thinking process that focuses on a unique dynamics of life on earth and presents this material as an organized body of knowledge.

The curriculum recognizes the need for broad and well-trained scientists to cope with the complexities of contemporary and anticipated disruptions of environmental systems. Majors must acquire a real-world understanding of hybrid built and natural systems, as well as the content and methodology of science. They will study the theoretical and applied aspects of environmental science and will be exposed to a range of current and future problems.

REQUIREMENTS FOR THE MAJOR

- I. Environmental Science BC 1001, BC 1002. Advanced courses in Environmental Science or another related science may be substituted for this requirement with permission of the chairman.
- II. At least one course in Chemistry and five other courses in the natural sciences (Biology, Chemistry, Geology or Physics). At least two of these must include labs.
- III. Four courses to be selected from the following:

Environmental Science

Environmental Science BC 3015	<i>Chemical Cycles in the Environment</i>
Environmental Science BC 3016	<i>Environmental Measurements</i>
Environmental Science BC 3019	<i>Energy and Mineral Resources</i>
Environmental Science BC 3020	<i>Renewable Resources</i>
Environmental Science BC 3022	<i>Environmental Case Studies</i>
Environmental Science BC 3035	<i>Environmental Hazards and Disasters</i>
Environmental Science BC 3037	<i>Environmental Monitoring</i>
Environmental Science BC 3038	<i>Environmental Planning and Site Development</i>

Graduating seniors are required to submit a report on an environmental research project by taking Environmental Science BC 3997, 3998, or as an extension of another course.

Majors in Environmental Science are encouraged to take courses in the social sciences in order to become familiar with the languages and approaches of these disciplines to environmental issues.

REQUIREMENTS FOR THE MINOR

Five courses are required:

Environmental Science BC 1001, BC 1002, and electives that form a coherent program in conjunction with the student's major field.

COURSES OF INSTRUCTION

ENV BC 1001x, ENV BC 1002y.

Environmental Science.

Global and local dynamics of natural systems of the planet Earth, and their capacities to satisfy human demands for land, food, water, energy, minerals, open space, waste disposal. Impact of population growth, technology, and urban life-styles on planetary and regional equilibria. Autumn Term: physical processes of the atmosphere, hydrosphere, pedosphere, and lithosphere, and their vulnerabilities to human activities. Spring Term: ecosystem analysis of local and global processes in the biosphere, geographical ecology and biome classification; disturbances of the integrity of the environment by the technologies of modern agriculture and urban-industrial processes; remedial measures and planning a sustainable ecology for the future. — R. Bopp.

Enrollment limited to 80 students. Permission of the instructor required. Students must sign up for lab sections in 331 Milbank by the end of the previous term.

4½ points.

Lecture M W 1:10-2:25.

Laboratory M 2:40-5:30, Tu 2:40-5:30,

W 2:40-5:30, Th 2:40-5:30.

ENV BC 3015x. Chemical Cycles in the Environment.

A detailed study of the cycles of chemical species in the environment including carbon, nitrogen, phosphorus and sulfur compounds, major cations, trace metals, and organic pollutants. Emphasis will be placed on man-induced perturbations of natural cycles.—R. Bopp.

Prerequisites: Chemistry BC 1601 and Environmental Science BC 1001, BC 1002 or equivalent or permission of the instructor.

3 points. Tu Th 10:35-11:50.

ENV BC 3016y. Environmental Measurements.

Modern methods used in analysis of environmental samples for monitoring and research purposes. Standard and advanced techniques of air, water, sediment and soil analysis will be covered including spectrometric and chromatographic methods.—Staff.

Prerequisites: Chemistry BC 1601, or equivalent and permission of the instructor. Enrollment limited to 16 students. Alternate years. Offered in 1988-89.

3 points. M 4:10-6:00

Laboratory 2 hours per week, M or W.

Environmental Science

ENV BC 3019y. Energy and Mineral Resources.

A scientific description and evaluation of the current status and future of our energy and mineral resources including methods of treating wastes generated during resource production and use.—P. Bower.

Prerequisites: One year college science and permission of the instructor.

Alternate years. Offered in 1988-89.

3 points. Tu Th 9:10-10:25.

ENV BC 3020x. Renewable Resources.

A scientific consideration of water and soil resources including the hydrologic cycle, surface and groundwater flow, and soil genesis, classification and conservation. Agricultural systems and forestry and fisheries resources will also be analyzed.—P. Bower.

Prerequisites: One year of college science and permission of the instructor.

Alternate years. Not offered in 1988-89.

3 points.

ENV BC 3022y. Environmental Case Studies.

Investigation of the scientific aspects of particular cases that illustrate major environmental problems. Legal and social implications will also be explored. Included will be such topics as ocean dumping of sewage sludge, eutrophication of Lake Erie, acidification of German forests and PCB contamination of the Hudson River.—R. Bopp.

Prerequisite: Environmental Science BC 1001, BC 1002, or equivalent, or permission of the instructor.

Alternate years. Not offered in 1988-89.

3 points.

ENV BC 3035x. Environmental Hazards and Disasters.

Prediction and avoidance of catastrophic events that originate in natural systems and technologic systems; risk assessment, response strategies to minimize damage before, during and after events such as earthquakes, floods, nuclear breakdowns.—P. Bower.

Alternate years. Offered in 1988-89.

3 points. Tu Th 9:10-10:25.

ENV BC 3037x. Environmental Monitoring.

Design and use of surveillance methods to safeguard the quality of life and public health; air, water, soils, home and occupational safety, food and consumer goods, disposal of toxic substances and sanitary, industrial, and household wastes. Determination of background levels, setting of standards and enforce-

ment procedures, visits to public and private agencies.—Instructor to be announced.

Not offered in 1988-89.

3 points.

ENV BC 3038y. Environmental Planning and Site Development.

Introduction to the site planning process based upon environmental, scientific, sociological, legal and economic considerations. Steps include data collection, site analysis, development of resource protection goals, development and evaluation of plan alternatives, and plan preparation and implementation. Two sites are used: A suburban site involving natural ecosystems and an urban site in Manhattan.—C. Swick.

Limited enrollment; permission of the instructor required.

3 points. Tu 4:10-6:00, plus studio design projects.

Environmental Science—Philosophy ESP

BC 3025y. Ethics and Environment.

A philosophical examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory, and law.—E. Katz.

3 points. Tu Th 2:40-3:55.

H

ENV BC 3997x, 3998y. Senior Essay.

Research under the supervision of a faculty member for the purpose of preparing the senior thesis. The thesis may be completed in a single semester or over both semesters of the senior year.—Staff.

Variable points with a maximum total of four. Hours to be arranged.

ENV BC 3999x, ENV BC 3999y. Problems and Projects in Environmental Science.

Advanced laboratory and/or field studies for students who have adequate backgrounds to work independently with guidance from a member of the faculty.—Staff.

Permission of chairman required.

Variable points. Hours to be arranged.

The following courses offered by the Geography Department of Columbia University are of special interest to students of Environmental Science. Students should consult the Columbia College Bulletin for course descriptions.

Environmental Science

GEO W 4019x. Cartography I.
M. Pinther.
3 points.

GEO W 4071x. Remote Sensing of the Environment.
H. Wilson.
3 points.

The following courses offered by the Geological Sciences Department of Columbia are of special interest to students of Environmental Science. Students should consult the Columbia College Bulletin for course descriptions.

GEY W 3001x. Time in the Earth Sciences.
J. Hays and P.E. Olsen.
3 points.

GEY W 4008x. Introduction to Atmospheric Science.
A. Del Genio.
3 points.

GEY W 4884y. Organic Geochemistry.
R. Bopp.
3 points.

GEY W 4926y. Principles of Chemical Oceanography.
P. N. Froelich and H.J. Simpson.
3 points.



Foreign Area Studies

Office: 321A Milbank Hall

Telephone: 280-2125, 5417

This program is supervised by the Committee on Foreign Area Studies:

Professor of Anthropology

Abraham Rosman

Professor of French

Serge Gavronsky

Assistant Professor of History

William McNeil

Professor of Italian

Maristella de Panizza Lorch

Professor of Oriental Studies

Barbara Stoler Miller¹

Professor of Political Science

Peter H. Juviler

Professor of German

Gertrud M. Sakrawa

¹Absent on leave, Autumn Term

The purpose of Foreign Area Studies is to provide introduction to the study of a foreign region of the world. Foreign Area Studies majors are encouraged to study abroad in the region of interest. The work is divided into three elements: language, a scholarly discipline, and a diversified approach to a region. The student who wishes to major may choose one of the regions listed below. The courses named under each region include only those most commonly elected. Other courses may be chosen upon approval of the project by an adviser.

REQUIREMENTS FOR THE MAJOR

A major in Foreign Area Studies is open to a limited number of qualified students whose applications are approved by the committee in charge. Freshmen and sophomores anticipating such a major should consult their class advisers and the officer in charge by March 1 of the sophomore year.

The senior requirements vary according to the region studied. Majors should consult their advisers for details.

There is no minor in Foreign Area Studies.

Oriental Studies (Adviser: To be announced). See Oriental Studies, page 196.

Foreign Area Studies

European Studies (Adviser: Professor McNeil)

Students may focus on one country or one region of Western Europe. Competence in the language of the region is expected. The major includes:

- A. A concentration consisting of five courses in an academic discipline in the Social Sciences chosen in consultation with the major adviser. *A maximum of two of these courses that deal with European topics may be counted among the ten courses in the regional concentration (Part B).*
- B. 10 courses focusing on a country or region to include:
 - 2 courses in European History;
 - 2 courses in the literature or cultural studies of one country in the original language;
 - 2 semester senior projects under the direction of the program adviser or an adviser in the minor field;
 - 4 courses outside the minor field dealing with the selected country or region drawn from the following list:

Anthropology V 3007	<i>Peoples of Europe</i>
V 3037	<i>Societies in Transition</i>
V 3038	<i>Ethnicity and Race</i>
Art History courses on European topics	
Economics BC 3030	<i>Comparative Economic Systems</i>
G 4313	<i>Economic History of Europe</i>
History	<i>European History courses</i>
Political Science BC 3007	<i>Modern Political Movements</i>
BC 3013/3014	<i>Political Theory</i>
ISP G 4415	<i>Social and Political Institutions in Italy Today</i>

French courses in Culture and Literature, See French, page 140

German courses in Cultural and Literature, See German, page 156

Italian courses in Culture and Literature, See Italian, page 170

Spanish courses in Culture and Literature, See Spanish, page 250

Latin American Studies (Adviser: Professor MacAdam)

A major consists of the five courses below and five additional courses, two of which should be in one department and above the introductory level. These courses, to be chosen with the help of the adviser, should come from the departments listed below:

Spanish BC 3015, BC 3016	<i>Spanish-American Culture</i>
Spanish BC 3031, BC 3032	<i>Literature of Latin America</i>
Spanish BC 3034	<i>Independent Research in Latin America</i>
Anthropology, Art History, Economics, History, Religion, and Spanish.	

Foreign Area Studies

Soviet Studies (Adviser: Professor Juviler)

The major consists of

4 years of Russian language and a reading knowledge of Russian adequate for research in the Senior Seminar; and

8 courses distributed in the following subjects:

2 courses in Russian or Soviet literature (in translation or Russian);

2 courses in Russian history;

1 course on Russia or the Soviet Union (history, geography, sociology, economics, literature in translation or Russian, etc.);

1 course in Soviet politics; and

2 semesters of a senior research seminar with research to be conducted predominantly in Russian language sources.



French

Office: 314 Milbank Hall

Telephone: 280-8312

Professors

Serge Gavronsky (Chairman), Renée Geen

Visiting Professor

Emmanuel Hocquard

Adjunct Assistant Professor

Anne Boyman

Assistant Professors

Anne Berthelot, Elyane Dezon-Jones

Instructors

Christine Berthin, Laure Borgomano, Roger Celestin, Isabelle Jouanneau-Fertig, Panivong Narindr, Marie-Laurence Petit, Colette Pratt

Courses in the French Department have a twofold objective: to perfect fluency in the written and spoken language, and to develop an understanding and appreciation of the literature and culture of France and French-speaking countries.

New students who have already given evidence of advanced training in French (Advanced Placement Examination, CEEB examinations) may automatically be exempted from the language requirement. All other new students who intend to satisfy their requirement in French will, depending upon their preparation, be placed immediately in the appropriate language course or be asked to take a placement test offered at the start of each semester (see College Calendar for exact dates). Those receiving a sufficiently high grade fulfill the requirement. The others may do so by completing French BC 1204. For additional information about language courses, students should consult the department chairman.

Students who have satisfied the language requirement may take literature courses conducted entirely in French (BC 3020, BC 3021, BC 3022, BC 3023, BC 3024); courses in which the readings are in French, but with lectures, discussions, and papers in English (BC 3047, BC 3048); and advanced language courses BC 1306, BC 1307.

In cooperation with Columbia College, the department offers a program at Reid Hall in Paris open to majors and non-majors. See Study Abroad, page 41.

The department holds many of its advanced classes in a special seminar-library, the French Room (306 Milbank).

REQUIREMENTS FOR THE MAJOR

All majors are required to take the Junior French Test, a short-answer examination on French History, literary history, literary terminology, and translation. Majors will take the Major Examination, a written critical essay on a prepared question and an individual oral *explication de texte*.

Majors who plan to do graduate work are encouraged to acquire a reading knowledge of Latin and German.

In consultation with the adviser of her choice, the student majoring in French may select either of the following options:

Language and Literature

Ten courses are required for the major:

French BC 3021
and BC 3022

or

French BC 3023
and BC 3024

*Masterpieces of Literature from the Middle
Ages to the Twentieth Century*

The Culture and Institutions of France

Two of the following language courses:

French BC 3012	<i>History of the French Language</i>
French BC 3013	<i>Advanced Composition and Grammar</i>
French BC 3014	<i>Advanced Translation</i>
French BC 3015	<i>Advanced Translation into French</i>
French BC 3016	<i>Advanced Oral French</i>
French BC 3017	<i>The Translation of Dialogue</i>

5 literature courses chosen from BC 3031-BC 3046; and
one-term seminar numbered BC 3052 or a Senior Essay in Literature.

Translation and Literature

The major requires 10 courses:

- French BC 3021 and BC 3022, or BC 3023 and BC 3024;
- French BC 3014 and two other advanced language courses chosen from courses BC 3013, BC 3015, or BC 3017;
- 4 one-term literature courses numbered BC 3031-BC 3046; and
- one-term seminar numbered BC 3053 or a Senior Essay in Translation.

The student is expected to declare her option by the end of the junior year. Either program may include additional courses in French literature and language, or in other subjects which vary with the interest of the student.

REQUIREMENTS FOR THE MINOR

Seven courses are required for a minor:

- French BC 3021 and BC 3022, or BC 3023 and BC 3024;
- 2 advanced language courses (French BC 3012-BC 3017); and
- 3 advanced literature courses (French BC 3031-BC 3046).

A student who elects French as part of a combined, double, or interdisciplinary major will establish her individualized program with the departments concerned.

COURSES OF INSTRUCTION

LANGUAGE COURSES

All courses except BC 3014 and BC 3017 are conducted in French. *All students in 1203 and 1204 are expected to have a walkman.*

FRE BC 1001x-FRE BC 1002y.

Elementary Full-Year Course.

Grammar, reading, composition.—Staff.

Course Chairman: R. Celestin.

Enrollment limited to 20 students per section.

One hour of oral drill is required. 4 points. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.

Section I M Tu W Th F 9:00. C. Berthin.

Section II M Tu W Th F 9:00. P. Narindr.

Section III M Tu W Th F 10:00. x: R. Celestin, y: I. Jouanneau-Fertig.

FRE BC 1102x. Review of Elementary French.

Oral and written review of basic grammar and syntax. Reading in modern literature, free composition, translation. One hour of oral drill is required.—Staff.

Course Chairman: A. Berthelot.

Primarily for students who need further instruction to qualify for the intermediate course. Enrollment limited to 20 students per section.

3 points.

Section I M W F 9:00. C. Pratt.

Section II M W F 10:00. A. Berthelot.

Section III M W F 11:00. C. Berthin.

Section IV Tu Th 10:35-11:50. E. Dezon-Jones.

Section V Tu Th 1:10-2:25. P. Narindr.

FRE BC 1203x. Intermediate Course.

Grammar and syntax. Reading in modern literature, free composition, translation. One hour of oral drill is recommended.—Staff.

Course Chairman: I. Jouanneau-Fertig.

Prerequisites: BC 1001-BC 1002, BC 1102, C 1101-C1102, or an appropriate score on the placement test.

Enrollment limited to 20 students per section.

Course fee \$5.

3 points.

French

FRE BC 1203y. Intermediate Course.

Equivalent of BC 1203x, but given in the Spring Term.—Staff. Course Chairman: E. Dezon-Jones.

Prerequisites: BC 1001-BC 1002, BC 1102x, or an appropriate score on the placement test. Enrollment limited to 20 students per section. Course fee \$5.

3 points.

Section I M W F 9:00. C. Pratt.

Section II M W F 10:00. C. Berthin.

Section III M W 1:10-2:20. E. Dezon-Jones.

Section IV Tu Th 1:10-2:25. P. Narindr.

Section V Tu Th 10:35-11:50. I. Jouanneau-Fertig.

FRE BC 1204x. French through Literary Analysis. Intermediate Course II.

Study of literary texts from Pascal to Rimbaud as a basis for improving the comprehension of written and spoken French.—Staff. Course Chairman: R. Geen.

Prerequisite: BC 1203 or an appropriate score on the placement test. Enrollment limited to 20 students per section. One hour of oral drill is recommended.

3 points.

Section I M W F 10:00. R. Geen.

Section II M W F 11:00. P. Narindr.

Section III Tu Th 10:35-11:50. I. Jouanneau-Fertig.

Section IV Tu Th 1:10-2:25. M. Camille.

FRE BC 1204y. French through Literary Analysis. Intermediate Course II.

Equivalent of BC 1204x but given in the Spring Term.—Staff. Course Chairman: C. Pratt.

Prerequisite: BC 1203 or an appropriate score on the placement test. Enrollment limited to 20 students per section.

3 points.

Section I M W F 9:00. L. Borgomano.

Section II M W F 10:00. C. Pratt.

Section III M W F 11:00. I. Jouanneau-Fertig.

Section IV M W 1:10-2:25. Instructor to be announced.

Section V Tu Th 1:10-2:25. C. Pratt.

FRE BC 1205x. Intermediate Oral French.

Intensive oral work. Pronunciation exercises, vocabulary enrichment through discussions on prepared topics, poetry recitation, and theatrical presentations.—C. Berthin.

Prerequisite: BC 1102 or BC 1203, or a satisfactory score on the placement test. This course does not satisfy the language requirement. Enrollment limited to 15 students.

3 points. M W 1:10-2:25.

FRE BC 1306x. Composition and Conversation.

Weekly compositions designed to improve writing skills, and to correct grammar and syntax. Pronunciation, vocabulary development, conversations, debates based on controversial themes, and selected literary readings.—L. Borgomano.

Prerequisite: BC 1204 or a satisfactory score on the placement test. Enrollment limited to 15 students.

Course fee \$5.

3 points. M W 1:10-2:25.

FRE BC 1306y. Composition and Conversation.

Equivalent of BC 1306x but given in the Spring Term.—A. Berthelot.

Prerequisite: BC 1204 or a satisfactory score on the placement test. Enrollment limited to 15 students.

Course fee \$5.

3 points. M W 1:10-2:25.

FRE BC 1307y. Advanced French: Commercial-Economic French.

The socio-economic language of contemporary French society. Practice of oral and written communications. Study of texts and documents from the French press. Students who have completed this course may wish to take the Certificate given by the Chambre de Commerce et d'Industrie de Paris.—L. Borgomano.

Prerequisite: Satisfaction of the language requirement or permission of the instructor. BC 1306 recommended.

3 points. M W F 11:00.

FRE BC 3012x. History of the French Language.

Distinguishing characteristics of the French language in their relation to literary prose from the Middle Ages to the twentieth century. Analysis and translation of representative texts.—A. Berthelot.

Majors preferred.

3 points. M W F 1:10-2:00.

FRE 3013y. Advanced Composition and Grammar Review.

Systematic study of morphology, syntax, and idiomatic constructions; exercises, compositions, occasional translations into French.—E. Dezon-Jones.

Nonmajors may take the course with the permission of the instructor.

Not offered in 1988-89.

3 points.

French

FRE BC 3014x. Advanced Translation.

Translation of various styles of prose and poetry from French to English.—A. Boyman.
Nonmajors may take the course with the permission of the instructor.
3 points. Tu Th 1:10-2:25.

FRE BC 3015x. Advanced Translation into French.

Translation from English to French of various styles of prose and poetry.—R. Geen.
Nonmajors may take the course with the permission of the instructor.
Not offered in 1988-89.
3 points.

FRE BC 3016y. Advanced Oral French.

Spoken French stressing fluency, and acquisition of new vocabulary. Practice in phonetics. Conversations, debates based on newspaper articles, dramatic readings and oral explication de texte.—A. Boyman.
Nonmajors may take the course with the permission of the instructor. Enrollment limited to 15 students. Course fee \$5.
3 points. Tu Th 9:10-10:25.

FRE BC 3017x. Advanced Translation: Theatrical Dialogue.

Translation of passages from French plays and movie scripts. Group and individual projects.—A. Boyman.
Nonmajors may take the course with the permission of the instructor.
Not offered in 1988-89.
3 points.

FRE BC 3018x. Creative Writing.

Intensive November writing workshop emphasizing new approaches to narrative prose and poetry.—E. Hocquard.
Nonmajors may take the course with the permission of the chair. Interested students must submit a four page typewritten sample of their work to the chair no later than September 30. Limited to 15 students.
Prerequisite: Satisfaction of the language requirement or permission of the chair.
1 point. T Th 4:10-6:00.

LITERATURE COURSES

For nonmajors the literature courses listed in this section will count toward the general requirement. Courses BC 3047 and BC 3048 are conducted in English.

FRE BC 3020x. Special Themes in Modern French Literature: The Writings of French Painters.

Selections from Delacroix to Dubuffet. A study of the artist's views on art, aesthetics, and his contemporary world.—R. Geen.
Prerequisite: Satisfaction of the language requirement in French. Enrollment limited to 20 students.
Not offered in 1988-89.
3 points. H

FRE BC 3020y. Special Themes in Modern French Literature: Writing Race and Gender.

An examination of the novelistic representations of women of African descent; correlation between romantic love and power struggles; the novel as a genre and its role in the definition of the Caribbean experience. Readings will include novels written by Duras, Chauvet, Condé, Roumain and Schwarz-Bart.—C. Pratt.
Prerequisite: Satisfaction of the language requirement in French.
3 points. M W F 11:00.

FRE BC 3021x, FRE BC 3022y. Masterpieces of Literature from the Middle Ages to the Twentieth Century.

Scope and variety of French literature through analyses of significant works and currents from the Middle Ages to the twentieth century. Lectures, discussions and close textual analyses. Autumn Term: Medieval, Renaissance and Classical Literature. Spring Term: The Age of Enlightenment, Romanticism, Realism and Symbolism. French BC 3021 may be taken for credit without completion of French BC 3022.—A. Berthelot.
Prerequisite: Satisfaction of the language requirement in French.
3 points. M W F 11:00.

FRE BC 3021y. Masterpieces of Literature from the Middle Ages to the Twentieth Century.

Part I.

Equivalent of Course BC 3021x but given in the Spring Term.—R. Geen.
Prerequisite: Satisfaction of the language requirement in French.
3 points. Tu Th 1:10-2:25.

FRE BC 3022x. Masterpieces of Literature from the Middle Ages to the Twentieth Century.

Part II.

Equivalent of BC 3022y but given in the Autumn Term.—A. Boyman.
Prerequisite: Satisfaction of the language requirement in French.
3 points. Tu Th 10:35-11:50.

French

FRE BC 3023x, FRE BC 3024y. The Culture and Institutions of France.

Major cultural and institutional foundations of France from the Middle Ages to the present; the play of these forces on the contemporary period. Readings include historical, religious, and literary sources.—S. Gavronsky.

Prerequisite: Satisfaction of the language requirement in French.

Not offered in 1988-89.

3 points.

H

FRE BC 3031x. The Middle Ages.

"Fin'amor": analysis and evolution of the concept of love through some literary and theoretical texts of the period, together with twentieth-century interpretations (contemporary literature and criticism, films). Medieval readings will include the Tristan poems, the prosa-*Lancelot*, works of Chrétien de Troyes, some Troubadours and Trouvères, Guillaume de Machaut, Alain Chartier, René d'Anjou, Christine de Pizan. Modern readings will include Cocteau, Gracq, as well as Kristeva, Denis de Rougemont, Zumthor. Features films by Bresson, Carné, Rohmer.—A. Berthelot.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or permission of the instructor.

Not offered in 1988-89.

3 points.

H

FRE BC 3032x. Renaissance and Classical Prose.

Fictional and non-fictional prose of the sixteenth and seventeenth centuries: Rabelais, Montaigne, Descartes, Pascal, La Rochefoucauld, Madame de Sévigné, Madame de La Fayette, Bossuet, La Bruyère.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

Enrollment limited to 20 students.

Not offered in 1988-89.

3 points.

H

FRE BC 3033y. Renaissance, Baroque and Classical Poetry.

Aesthetics of poetry from early Renaissance to classical age: the "Grands Rhétoriciens" (Molinet, Lemaire de Belges. . .), the "Ecole lyonnaise" (Scève, Labé, P. de Guillet), the poets of "la Pléiade" (essentially du Bellay and Ronsard), Agrippa d'Aubigné and Sponde, Saint-Amant, Malherbe, and Racine.—A. Berthelot.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

Not offered in 1988-89.

3 points.

H

FRE BC 3034x. The French Theatre of the Seventeenth Century.

Corneille, Racine, and Molière.—R. Geen.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or permission of the instructor.

Not offered in 1988-89.

3 points.

FRE BC 3035x. Eighteenth-Century French Fiction.

Courses and discourses of the heroine in selected eighteenth-century novels. The rise of the harlot, the tribulations of the orphan, the fall of the noblewoman and the revenge of the betrayed in Prévost: *Manon Lescaut*, Marivaux: *La Vie de Marianne*, Diderot: *La Religieuse*, and Laclos: *Les Liaisons dangereuses*. Transpositions of the eighteenth-century heroine in operas and films.—R. Geen.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. M W 1:10-2:25.

H

FRE BC 3037y. Nineteenth-Century French Poetry.

Poetry and poetics from Romanticism through Symbolism. Selections from the works of Hugo, Nerval, Baudelaire, Rimbaud, and Mallarmé.—A. Boyman.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. Tu Th 1:10-2:25.

H

FRE BC 3038y. The Nineteenth-Century French Novel.

Evolution of the novel, aesthetics of Romanticism, Realism, and Naturalism. Authors will include Balzac, Stendhal, Flaubert, and Zola.—E. Dezon-Jones.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the equivalent or the permission of the instructor.

Not offered in 1988-89.

3 points.

FRE BC 3039y. Twentieth-Century French Theatre.

Tradition and innovation in major French dramatists from Jarry and Apollinaire to Ionesco and Arrabal.—R. Geen.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. Tu Th 10:25-11:50.

H

FRE BC 3040y. Twentieth-Century Fiction.

Theory and forms of the novel. A study of the evolution of the "genre" through a careful reading of Colette: *La Vagabonde*, Proust: *Du Côté de chez Swann*, Gide: *L'Immoraliste*.

French

Sartre: *La Nausée*, Sarraute: *Les fruits d'or*, Mauriac: *Thérèse Desqueyroux*.—E. Dezon-Jones.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.
3 points. M W F 11:00.

FRE BC 3041x. Twentieth-Century French Thought. Reading, Writing and Criticism: Positions of the major movements of the century. Authors will include Breton, Sartre, Barthes and Derrida.—S. Gavronsky.
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.
3 points. Tu Th 1:10-2:25.
Section I M W F 9:00. L. Borgomano.
Section II M W F 10:00. L. Borgomano.
Section III M W F 11:00. R. Geen.
Section IV M W 1:10-2:25. C. Pratt.
Section V Tu Th 1:10-2:25. R. Celestin.
Section VI Tu Th 1:10-2:25. I. Jouanneau-Fertig.

FRE BC 3042x. Twentieth-Century French Poetry. Analysis of some of the major poets of the century centering on Eluard, Michaux and Ponge. Special attention given to post-1945 poetry and poetics in the works of Bonnefoy, du Bouchet, Albiach, Risset and Roubaud.—S. Gavronsky.
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.
Not offered in 1988-89.
3 points. H

FRE BC 3043y. French Women Writers. A close reading of the texts by known and lesser-known French women writers with an emphasis on the “querelle des femmes” yesterday and now. Writers include Hélienne de Crenne, Marie de Gournay, Anne-Marie du Boccage, Madame de Lambert, Delphine Gay as well as twentieth-century authors.—E. Dezon-Jones.
Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.
Not offered in 1988-89.
3 points. H

FRE BC 3047x. Life and Work: Sarraute and Duras. Readings from the major texts of two contemporary French women writers with emphasis on their recent autobiographies, *Enfance* and *L'Amant*. The work/life relation specific to women who write will be the focus of the course.—A. Boyman.

Prerequisite: Satisfaction of the language requirement in French.
Not offered in 1988-89.
3 points. H

FRE BC 3048y. Writing Love. A comparison between courtly and surrealist texts emphasizing certain major themes and structures in medieval romances, the art of love, Tristan themes and prose and poetry by Aragon, Desnos, Eluard, Mansour.—S. Gavronsky.
Prerequisite: Satisfaction of the language requirement in French.
3 points. Tu Th 10:35-11:50.

SEMINARS

The number of students in each seminar is limited and written permission is required in advance of registration period.

FRE BC 3052x. Seminar in Language and Literature. Flaubert.—E. Dezon-Jones.
4 points. W 4:10-6:00.

FRE BC 3053y. Seminar in Translation and Literature. S. Gavronsky.
4 points. Tu 4:10-6:00.

SENIOR ESSAYS

A Senior Essay may be taken in lieu of the senior seminar only by seniors with an A-average in the department. Written permission of sponsor and chair is required in advance of registration period. All students will take the senior majors' examination; the defense of the essay constitutes the oral part of the majors' examination. Normally a one-semester course.

FRE BC 3057, FRE BC 3058. Senior Essay: Literature. Research into a topic of French literature and presentation of a long essay written in French.

FRE BC 3059, FRE BC 3060. Senior Essay: Translation. Presentation and translation into English of a French text of significant length and literary value.

French

STUDY IN PARIS

Reid Hall Programs
419 Lewisohn Hall, 280-2559

Reid Hall, at 4, rue de Chevreuse, in Montparnasse, is the Paris campus for Barnard College and Columbia University programs. The programs are open to students with majors in all fields. To assure validation of credits, students should work closely with their major advisers. Students should consult the current Reid Hall Bulletin about course offerings, which are subject to change.

Students may study at Reid Hall for one term (autumn, spring, or summer) or for an entire academic year. Students in the autumn programs may stay on for the spring. Participation in the Reid Hall Programs (except during the summer) requires a full-time commitment to four courses totaling at least 12 points. Students may enroll in a fifth course with the permission of the Director of Studies. All students should discuss their proposed program with their home college adviser and Dean of Studies prior to departure.

AUTUMN PROGRAMS

Application Deadline: April 1

1. *The Intermediate Program*. Open to students with one year of college-level French or the equivalent.
2. *The Combined Program*. Open to students with two years of college-level French or the equivalent.
3. *The Advanced Program*. Open to students with three years of college-level French or the equivalent. The third-year courses may be in literature, culture, grammar, composition, or conversation.
4. *The Art History Program*. Open to students with one or two years of college-level French or the equivalent, and one introductory-level art history course.

SPRING PROGRAMS

Application Deadline: October 1

1. *The Combined Program*. Open to students with two years of college-level French or the equivalent.
2. *The Advanced Program*. Open to students with three years of college-level French or the equivalent. The third-year courses may be in literature, culture, grammar, composition, or conversation.

3. *The Women's Studies Program*. Open to students with three years of college-level French or the equivalent, and two courses in women's studies or relevant disciplines.

ACADEMIC-YEAR PROGRAMS

Application Deadline: April 1

1. Students in the above-mentioned autumn programs may stay on for the spring. A variety of program options are available and are included in the descriptions of the autumn programs.
2. *The Academic-Year Program*. Open to students who have completed three years of college French with distinction. Students study at Reid Hall and in the French university system and may write a thesis.

SUMMER PROGRAMS

The Columbia University Summer Session regularly offers courses at Reid Hall. A six-week summer term, in operation during June and July, is open to Columbia University and Barnard College students, qualified students from other institutions, and to persons without current academic affiliation. All courses are offered for academic credit. Although the program changes from year to year, a typical Paris offering includes courses in intermediate and advanced French and in art history. Courses in film, literature, history, and philosophy may also be available. The Reid Hall Program is announced in the Summer Session Bulletin, which is available in February of each year. For a copy, write or call the Summer Session Office of Admissions, 303 Lewisohn Hall, Columbia University, New York, N.Y. 10027; (212) 280-2752.

Courses Offered at Reid Hall in Paris

French H 1201p. Intermediate Language Course, First Half.

For students in the Intermediate program.

Strong emphasis on the spoken language, pronunciation, oral-aural drill. Reading of contemporary texts. Inductive study of grammar.

Credit is not granted for both BC 1203 (or its equivalent) and H 1201.

4 points.

French H 1202q. Intermediate Language Course, Second Half.

For students in the Intermediate program.

Continued emphasis on spoken French; increased emphasis on reading and composition.

Credit is not granted for both BC 1204 (or its equivalent) and H 1202.

4 points.

French

French H 2503q. Introduction to French Civilization and Culture.

For students in the Intermediate Program.

Contemporary French society in a historical-cultural context: the weight of a centralized state, the defense of the French language, the Catholic tradition, France and Europe. These themes are presented, studied, and discussed in order to provide a basis for improving the comprehension of written and spoken French.

—Instructor to be announced.

3 points.

French H 3001x. Phonetics, I.

For students in the Intermediate Program.

Theoretical analysis of the phonemic, phonetic, and physiological characteristics of French speech. Practical work emphasizing articulation, rhythm, stress and intonation.—Dominique Barret.

2 points.

French H 3002x, y. Phonetics, II.

For students in the Combined Program.

Same work as Phonetics, I, with appropriate readings for the Combined Program.—Dominique Barret.

2 points.

French H 3003x, y. Phonetics, III.

For students in the Advanced Program.

Same work as Phonetics, I and II, with appropriate readings for the Advanced Program. A theoretical as well as practical approach to pronouncing the French language. Set within a comparative sociolinguistic perspective, the course investigates class, age-grade, regional, and situational variations.—Instructor to be announced.

3 points.

French H 3333y. Introduction to Literary Study: Medieval to Neo-classical Literature.

For students in the Advanced Program.

Introduction to the scope and variety of French literature through the analysis of significant works and currents from Medieval and Renaissance to Neo-Classical literature. Lectures, discussions, and close textual analyses.—Jean-Yves Pouilloux.

Credit is not granted for both BC 3021 and H 3333 (or C 3333 or F 3333).

4 points.

French H3334q. Introduction to Literary Study: From the 18th Century to the Present.

For students in the Combined Program.

Introduction to the scope and variety of French literature through the analysis of

significant works and currents. Lectures, discussions, and close textual analyses.

Credit is not granted for both BC 3022 and H 3334 (or C 3334 or F 3334).

4 points.

French H 3439x, y. Practice in the French Language: Grammar and Composition.

For students in the Combined Program and Art History Program.

Systematic study of grammar, including morphology, syntax, semantics, and idiomatic expressions, designed to improve writing and other communication skills.—Instructors to be announced.

3 points.

French H 3440x, y. Practice in the French Language: Aural/Oral Skills.

For students in the Combined Program.

Concentration on the improvement of comprehension and speaking ability through oral presentations that focus on varied aspects of French civilization and culture, such as cinema, literature, the media, cuisine, and the city of Paris.—Christine de Heredia; Anne-Marie Martin.

2 points.

French H 3441x, y. Advanced Practice in the French Language: Aural/Oral Skills.

For students in the Advanced Program.

Improvement of comprehension and speaking abilities through practice designed to teach students how to conduct oral presentations of their work in the French university system and elsewhere.

3 points.

French H 3442x, y. Advanced Practice in the French Language: Grammar and Composition.

For students in the Advanced Program.

Morphology and syntax. Comparative stylistics. Thematic readings are used for analysis and oral reports as well as for intensive training in composition.—Instructors to be announced.

3 points.

French H 3602x, y. Contemporary French Literature.

For students in the Advanced Program.

Advanced work in aspects of French *modernité* as expressed in the literary and critical avant garde from surrealism to the present. Close textual analysis of works by Breton, Desnos, Leris, Blanchot, Barthes, Sarraute, and Duras is undertaken according to

French

various approaches, especially psychoanalytical and ethnographical criticism.—Danielle Haase-Dubosc.

Credit is not granted for both BC 304I and H 3602.

3 points.

French H 3604x. Seminar on Contemporary French Art.

Emphasis on one particular work, artist, or school. The topic for 1987 was art and the question of madness: Pringhorn, surrealism, "art brut," Dubuffet, Dali, and the method of paranoid criticism. The topic for 1988 will be announced in January 1988.—Jean-Louis Ferrier.

French H 3625x, y. Literary Analyses of French Culture.

For students in the Advanced Program.

Ideology and politics in the literary texts of the 20th century. The issues of exclusion and participation in terms of contemporary French cultural identity. French society's relationship to its literary heritage and to the French language.—Jacques Lecarme.

French H 3991x-H 3992y. Supervised Study in the French University System.

For students in the Advanced Program.

Study in the French university system in the area of the student's choice under the supervision of the Director of Studies.

2 to 15 points each term.

French H 3997x-H 3998y. Supervised Research in France.

2 to 6 points each term.

Art History H 3320x, y. Medieval Art and Architecture.

For students in the Advanced Program.

Lectures and discussions on French art and architecture during the Middle Ages. Students are expected to visit and report on Saint-Denis, Cluny, Notre Dame, Chartres, and Sainte-Chapelle, and other sites.—Brigitte Chevallier.

4 points.

Art History H 3325x. Art and Architecture in France, 1500-1700. (in English)

For students in the Art History Program.

A survey of the visual arts in France between the reigns of François I and Louis XIV. Topics include the 16-century châteaux of king and courtier in the Loire valley, the School of Fontainebleau, Philibert de l'Orme and Jacques Androuet Ducerceau, Henri IV's

rebuilding of Paris, the development of the hôtel, and such artists as Lescot, Mansart, Le Vau, Hardouin-Mansart, Champagne, La Tour, the brothers Le Nain, Poussin, and Claude. Lectures are supplemented by walking tours.—Hilary Ballon.

3 points.

Art History H 3430q. Renaissance and 17th-Century Art and Architecture.

For students in the Combined Program.

Lectures and discussions on French architecture, painting, and sculpture from their roots in the Italian Renaissance through the 17th century. Students are expected to visit and report on the Musée Condé, Fontainebleau, Château d'Ecouen, Vaux-le-Vicomte, Versailles, and the Louvre, and other sites.—Charles Sala.

4 points.

Art History H 3440x. From Poussin to de Piles: Painting and Art Theory in Seventeenth-Century France. (Seminar)

For students in the Art History Program.

In the 1660's, a conflict erupted in France between the followers of Poussin and those of Rubens. This debate carried forward the discussion of the priority of line or color in the art of painting. At issue in the theoretical disputes during the second half of the seventeenth-century was the nature of painting, with the advocates of classicism insisting on its philosophical aims, and their opponents, led by Roger de Piles, emphasizing the visual effects of painting. An examination of the nature and significance of this debate and French painting in the decades preceding its eruption.—Hilary Ballon.

4 points.

Art History H 3990y. Claude Monet. (Seminar)

For students in the Advanced Program.

Covers the long and productive life of Claude Monet and includes the often frustrated directions of his work in the 1860's as well as the lesser-studied periods following Argenteuil. Museum visits and field trips, including Giverny.—Olivia Lorsignol.

Limited to 15 students.

4 points.

Art Humanities H 3710y. Fine Arts in Paris. (in English)

Capitalizes on the Paris setting by focusing on artists and architecture that can be studied to best advantage in France. Excursions to Chartres, Reims, Giverny, Rouen, and other

French

Normandy sites. The works of Delacroix and the French Impressionists receive special attention. Students learn to give a gallery talk and translate visual perceptions into verbal expression.—Olivia Lorsignol.

Limited to 15 students.

3 points.

History H 3240q. The State and Political Life in France from the Revolution to the Present.

For students in the Combined Program.

3 points.

History H 3250x. French Foreign Policy since World War II.

For students in the Advanced Program.

3 points.

History H 3260y. The French Intellectual and France in Crisis: from the Dreyfus Case to May 1968.

For students in the Advanced Program.

The roles and influences of French intellectuals within the political arena and the national struggles of contemporary France. Special attention to moments of crisis: the Dreyfus case, the thirties, World War II, the Algerian War, etc.

3 points.

History H 3460x. Intellectual and Social History of Paris.

For students in the Combined Program and the Art History Program.

A historical and architectural introduction from the city's origins to before World War II. Establishes links between the various components (topographical, administrative, religious, military, intellectual, economic, artistic, and social) that have contributed to the vitality of Paris and forged its image in the world.—Mark Deming, Jean-Marc Leri.

3 points.

Philosophy H 3550x-H 3551y. Aspects of Contemporary French Thought: Body, Machine, and Philosophical Space.

For students in the Advanced Program and the Women's Studies Program.

An overview of recent developments in French philosophy through analysis of contemporary positions; a critical examination of the main trends of present-day thought. Attendance at selected lectures by Jacques Derrida at the College de Philosophie and Gilles Deleuze at the Université de Paris VIII.—Rosina Braidotti.

Recommended preparation: an introductory course in philosophy.

3 points.

Women's Studies H 3450y. Contemporary French Thought and Feminist Theory. (Seminar)

For students in the Women's Studies Program.

Examines how feminist thought deals with contemporary conceptions of identity. Through a consideration of literature by women authors, the course identifies redefinitions of gender difference.—Marcelle Marini.

4 points.

Women Studies H 3550y. Women and Society in France: Le Corps Ecrit (The Writing/ Written Body). (Seminar)

For students in the Women's Studies Program.

Through the study of literary and artistic texts, the relations between the body and writing are addressed. Two broad areas are investigated: (I) How does the body write? Literature is produced by bodies that are either male or female and that have specific biographical itineraries; (II) How is the body written? Readings from Sartre, Giraudoux, Beauvoir, Peignot, Santos, Cixous, Wittig, and others.—Nancy Huston.

4 points.

Freshman Seminar Program

Program Office: 420 Lehman Hall

Telephone: 280-5046, 2159

This program is supervised by the Freshman Seminar Committee:

Professor of Russian

Marina Astman

Professor of Political Science

Dennis Dalton

Professor of Philosophy

Sue Larson

Assistant Professor of History

Barbara Tischler

Associate Professor of Classics

Helene P. Foley (Director)

Instruction in the Freshman Seminar Program is provided by the following regular members of the Barnard College Faculty:

Professors

Marina Astman (Russian), Lila Braine (Psychology), Dennis Dalton (Political Science), Hubert Doris (Music), Serge Gavronsky (French), Renée Geen (French), Peter Juviler (Political Science), Ruth Kivette (English), William Lazonick (Economics), Alfred MacAdam (Spanish), Robert A. McCaughey (History), John Meskill (Oriental Studies), Mary Mothersill (Philosophy), Richard Pious (Political Science), Alan Segal (Religion), Mirella Servodidio (Spanish)

Associate Professors

James Basker (English), André Burgstaller (Economics), Helene P. Foley (Classics), Lydia Lenaghan (Classics), Frederick Warburton (Biology)

Assistant Professors

Christopher Baswell (English), Mark Carnes (History), Roger Celestin (French), Elyane Dezon-Jones (French), Christopher Grandy (Economics), Holland Hendrix (Religion), William McNeil (History), Jeffrey Merrick (History), Catharine Nepomnyaschy (Russian), Celeste Schenck (English), Daniel Selden (Classics), Brian Smith (Religion), Barbara Tischler (History), John Vitkus (Psychology), Palle Yourgrau (Philosophy)

Lecturers, Associates and Instructors

Lecturers, Konrad Czyski (French), Marjorie Dobkin (English), Cynthia Novak (Dance), Susan Sacks (Education), Marvin Shulman (German), Timea Szell (English)

Purpose and Structure

Every Barnard freshman is required to take a Freshman Seminar during her first or second semester at Barnard. The purposes of the Freshman Seminars are threefold:

1. To develop further the essential and prerequisite skills a student brings to Barnard in the critical reading and analysis of important texts, in effective speaking, and in writing well—this last especially.
2. To develop these skills within an intellectually challenging context where students and teacher alike, through an examination of important and relevant texts, engage in an extended consideration of a theme central to human concerns and which goes beyond departmental boundaries.
3. To develop these skills and encounter this intellectual challenge in a small-class setting with instruction by a regular member of the Barnard faculty who has chosen to participate in the program. As such, Freshman Seminars should provide entering Barnard students with an early and positive additional measure of institutional identity.

Freshman Seminar Program

Accordingly, all Freshman Seminars share a common structure:

- Each will meet twice a week in regularly scheduled class periods.
- Each will have its enrollment limited to twenty or fewer students.
- Reading assignments will consist of a *maximum* of six book-length assignments or their equivalent (about 2000 pages).
- Writing assignments will consist of a *minimum* of an assignment every other week. These assignments will vary in character (e.g., an assigned topic; a selected topic; reworking a previous assignment; editing the work of others) and length.
- The regular grading practices of the College will be followed. Upon completion of the course, students will have an opportunity to evaluate their Freshman Seminar and to offer suggestions as to how it might be improved in subsequent offerings.

COURSES OF INSTRUCTION

The Freshman Seminar Program consists of twenty-eight seminars, organized into five clusters:

- I. Literary Reflections on the Human Condition
- II. The Individual and the Social Order
- III. Women in Literature and Culture
- IV. Aspects of the Modern Condition
- V. Cross-Cultural Encounters

These clusters identify thematic concerns or textual emphases common to more than one seminar, while reflecting varying levels of faculty collaboration that went into the development of the individual seminars. They are also intended to facilitate the process by which a student selects the seminar of her first or second choice. (Procedures for selecting Freshman Seminars are described in Freshman Registration materials.)

I. LITERARY REFLECTIONS ON THE HUMAN CONDITION

Each of these seminars focuses on an enduring theme or genre through a close reading of texts drawn from the sweep of classical and western literature.

FSM BC 1106x. Perspectives on Mortality.

Different responses to the fact of mortality will be studied from its acceptance in the Gilgamesh Epic and the Odyssey to the ordeals of the quest to transcend it in the Bible, Plutarch and Apuleius. Other readings:

Joseph Campbell, *The Hero with a Thousand Faces*, *Cold Mountain Poems*, *Mu-Lien Saves His Mother from Hell*.

Alan Segal, *Religion Department*
Fall, M W 11:00-12:15.

FSM BC 1115x. Literature and the Unspeakable.

A study of texts that dramatize the writer's struggle to meet a fundamental and abiding

problem of literary art: how to capture in language the extremes as well as the subtleties of experience; how to translate images and intuitions into words; how to express that which can seem inexpressible. Readings include:

Sophocles, *Oedipus Rex*
Selected books of the Bible
William Shakespeare, *King Lear*
Emily Brontë, *Wuthering Heights*
Mark Twain, *Huckleberry Finn*
T.S. Eliot, *The Wasteland*
Virginia Woolf, *Mrs. Dalloway*
Selected poems by Pope, Wordsworth, Coleridge, Yeats, Stevens, with short readings in Nietzsche and Freud

James Basker, *English Department*
Fall, Tu Th 2:40-3:55.

FSM BC 1117x. The Exotic Encounter in Western Literature.

The course will explore the ways in which Western writers represent North-South and East-West encounters in literature from Antiquity to the present. We will attempt to

Freshman Seminar Program

define, examine, and question the concept "exotic" itself and its thematic uses in Western texts. Readings include:

Euripides, *Bacchae*
Voltaire, *Candide*
Conrad, *Heart of Darkness*
Freud, *The Uncanny*
Rhys, *Wide Sargasso Sea*
Duras, *Hiroshima mon amour*
Naipaul, *Guerillas*

Roger Celestin, *French Department*
Fall, M W 11:00-12:15.

FSM BC 1118x. Seduced and (sometimes) Abandoned.

The course will explore the theme of seduction and abandonment in literature and analyze the victims' reactions in selected works drawn from Antiquity to the present. Readings include:

Excerpts from the Bible
Euripides, *Medea*
Vergil, the *Aeneid*
Flaubert, *Madame Bovary*
Hardy, *Tess of the d'Urbervilles*
de Beauvoir, *The Broken Woman*
Walker, *In Love and In Trouble*

Elyane Dezon-Jones, *French Department*
Fall, Tu Th 9:10-10:25.

FSM BC 1119x. Heroes and Heroines.

The course will examine, through contrasting texts involving the same character, the use of heroic male or female figure to express the author's views of the individual in relation to his society at some critical moment in that society's existence. Readings include:

Sophocles' and Anouilh's *Antigone*
Sophocles, *Oedipus*, Cocteau, *Infernal Machine*, and Stravinsky, *Oedipe*
Mozart, *Don Giovanni*, and Shaw, *Man and Superman*
Seneca, *Phaedra*, and Racine, *Phèdre*
Gluck, *Orfeo*, Offenbach, *Orphée aux Enfers*, Stravinsky, *Orpheus*

Hubert Doris, *Music Department*
Fall, 10:35-11:50.

FSM BC 1116x, The Fantastic in Literature.

An examination of the fantastic in literature, focusing on the use of the fantastic to define people in relation to the world around them. Particular attention will be devoted to the boundaries between people's inner and outer worlds and to the question of what separates

the "fantastic" from the "fictional." Readings include:

Homer, the *Odyssey*
Sophocles, *Oedipus Rex* and *Oedipus at Colonus*
Shakespeare, *Macbeth* and *The Tempest*
Freud, "The Uncanny"
Austen, *Northanger Abbey*
Shelley, *Frankenstein*
Carroll, *Alice's Adventures in Wonderland*
Kafka, *The Metamorphosis*

Catherine Nepomnyaschy, *Russian Department*
Fall, Tu Th 9:10-10:25.

FSM BC 1120x. The Ideal of Perfection.

Images of perfection in Homer, the Bible, Aristotle, Plato, Nietzsche, Tolstoy, and I. Babel; their role in virtue and the good life in art and in our conception of knowledge and reality.

Palle Yourgrau, *Philosophy Department*
Fall, M W 1:10-2:25.

II. THE INDIVIDUAL AND THE SOCIAL ORDER

These seminars focus on the tensions between the claims of the individual to autonomy and the demands placed upon the individual by society.

FSM BC 1201x. The Artist and Society.

An investigation of the relationship of the artist and society as it reflects the intellectual climate of the modern age. Supplementary readings will include the work of Luigi Pirandello, James Joyce, and Hermann Hesse.

Marvin Shulman, *German Department*
Fall, M W 2:40-3:55.

FSM BC 1203x. The Crisis of Authority.

An examination of the authority relationship and its collapse. The seminar will consider how authority is accepted, confronted, confined and reconstituted. Readings include *The Book of Job*, *The Republic*, *The Social Contract*, James Madison, and Martin Luther King, Jr.

Richard Pious, *Political Science Department*
Fall, M W 1:10-2:25.

FSM BC 1204x. Nature and Utopia in Western Thought.

Analysis of the relationship between assumptions about human nature and programs for

Freshman Seminar Program

the reordering of human society, from Plato and the Bible to Charlotte Perkins Gilman and Marge Piercy.

Jeffrey Merrick, History Department
Fall, M W 1:10-2:25.

FSM BC 1209y. Resistance and Authority.

An inquiry into the sources and implications, both empirical and moral, of obedience and resistance to political authority, through a variety of perspectives—philosophical, literacy, political, psychological, classical and modern. Readings will include Sophocles, Franz Fanon, Vladimir Bukovsky.

Peter Juviler, Political Science Department
Spring, Tu Th 2:40-3:55.

FSM BC 1211x. The Rise of Possessive Individualism.

This seminar examines the emergence idea of the “economic man.” Readings include:

Thomas Hobbes, *The Leviathan*
Karl Marx, *Capital*
Edward Bellamy, *Looking Backward*
J. B. MacPherson, *Possessive Individualism*
Norman O. Brown, *Life Against Death*
John Maynard Keynes, *Essays in Persuasion*

André Burgstaller, Economics Department
Fall, Tu Th 4:10-5:25.

FSM BC 1214y. The Many Faces of Power.

An inquiry into the meanings of power, and power relations in contexts such as the family, the development of knowledge, individual psychology, moral systems. Readings include works by Demming, Engels, Freud, Janeway, T. Kuhn.

Lila Braine, Psychology Department
Spring, M W 11:00-12:15.

FSM BC 1216y. Revolution: Locke to Luxemburg.

Close reading of revolutionary and counter-revolutionary texts from the seventeenth through the twentieth century. This seminar examines revolutions as debates among competing points of view, with emphasis on the ways in which the language of revolution is challenged and transformed in the course of those debates. Readings include:

Thucydides, *The Peloponnesian War*, selections
Locke, *Two Treatises on Government*

Paine, *Common Sense* and *The Rights of Man*

Burke, *Reflections on the Revolution in France*

Wollstonecraft, *Vindication of the Rights of Women*

Lenin, *What Is to Be Done?*

Luxemburg, “Leninism or Marxism?”

Kollontai, “Women and the Revolution”

Herbert Sloan, Department of History
Spring, M W 2:40-3:55.

FSM BC 1217y. Legal Institutions and Economic Man.

The seminar explores the relationship between legal institutions and economic activity. We will examine the roles of contract, democracy, and individual rights and duties for economic development. Readings include:

Rousseau, *The Social Contract*
Tocqueville, *Democracy in America*
Thoreau, *Civil Disobedience*
Smith, *The Wealth of Nations*
Marx and Engels, *The Communist Manifesto*
U. S. Supreme Court Cases

Christopher Grandy, Economics Department
Spring, Tu Th 1:10-2:25.

III. WOMEN IN LITERATURE AND CULTURE

An investigation into the ways in which women’s experience has been imagined in literature and constructed in culture. Emphasis will be on female destiny and desire; rites of passage; modes of rebellion; possibilities and limits; knowledge, freedom and duty; alternative visions and strategies. Attitudes toward myth, female sacrifice, courtship, marriage, motherhood, adultery, and work will be considered. Readings will include major works of Western and non-Western literature in the critical context of the new scholarship on women.

Each seminar will draw approximately two-thirds of its readings from the following core list of writings:

Homer, *The Odyssey*
Sophocles, *Antigone*
Homer, *Hymn to Demeter*
Kalidasa, *Sakuntala*
William Shakespeare, *As You Like It*
Leo Tolstoy, *Anna Karenina*
Virginia Woolf, *A Room of One’s Own*

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Alice Walker, *The Color Purple*
Lyric poetry by Sappho, early Buddhist
nuns, Anna Akhmatova, Sylvia Plath,
Adrienne Rich, Audre Lorde.
Selected essays by Nancy Chodorow,
Carol Gilligan, Sherry Ortner.

FSM BC 1305x. Women in Literature and Culture.

Special texts:

Sigmund Freud, *Dora: Analysis of a Case History of Hysteria*,
Lyric Poetry by Contemporary Women

Celeste Schenck, *English Department*
Autumn, Tu Th 1:10-2:50.

FSM BC 1306y. Women in Literature and Culture.

Special texts:

Kate Chopin, *The Awakening*
Sigmund Freud, *Dora: Analysis of a Case History of Hysteria*

Susan Sacks, *Education Program*
Spring, Tu Th 2:40-3:55.

FSM BC 1309y. Women in Literature and Culture.

Special texts:

Geoffrey Chaucer, "Wife of Bath's Tale,"
"The Second Nun's Tale," "The Clerk's
Tale," in *The Canterbury Tales*
Virginia Woolf, *Orlando*
Kate Chopin, *The Awakening*
Sigmund Freud, *Dora: Analysis of a Case History of Hysteria*

Timea Szell, *English Department*
Spring, M W 1:10-2:55.

FSM BC 1310y. Women in Culture and Literature.

Special texts:

Fernando de Roja, *Celestina*
García Lorca, *Blood Wedding*; *Yerma*; *The House of Bernarda Alba*

Mirella Servodidio, *Spanish Department*
Spring, M W 1:10-2:25.

IV. ASPECTS OF THE HUMAN CONDITION

These seminars are concerned with the different ways literary artists portray and social critics analyze the contemporary Western world. Readings include works of fiction, biography, and social theory.

FSM BC 1401x. The Modern Idea of Freedom.

This seminar examines texts, from the seventeenth to the twentieth century, which constitute a meditation on the relationship of language to freedom and on the individual's freedom to express his individuality in the language everyone else uses. Readings include:

Pedro Calderón de la Barca, *Life Is a Dream*

Jonathan Swift, *Travels into Several Remote Regions of the World*

Jorge Luis Borges, "Tlong, Ugbar, Orbis Tertius"

Thomas Pynchon, *The Crying of Lot 49*.

Alfred MacAdam, *Spanish Department*
Fall, Tu Th 10:35-11:50.

FSM BC 1403x. The Rise and Fall of Liberalism.

The ethos of liberalism has been at the ideological center of the modern, industrial world. This seminar examines classic statements of the liberal ideal, major challenges to it, and how liberal ideas have changed over time. Readings include:

John Locke, *Two Treatises on Government*

Adam Smith, *The Wealth of Nations*

Mary Wollstonecraft, *Vindication of the Rights of Women*

Rosa Luxemburg, "Leninism or Marxism?"

V.I. Lenin, *What Is to Be Done?*

Sigmund Freud, *Civilization and Its Discontents*

John Maynard Keynes, *Essays in Persuasion*

Milton Friedman, *Capitalism and Freedom*

William McNeil, *History Department*
Fall, Tu Th 10:35-11:50.

FSM BC 1408y. The Person in Literature and Life.

This seminar examines different authors' conceptions of the internal and social forces that shape an individual's unique personality. Discussions will focus on the adaptiveness of particular personalities within the context of their social environments. Readings include:

William Shakespeare, *Richard III*

Mary Shelley, *Frankenstein*

Oscar Wilde, *The Picture of Dorian Gray*

Franz Kafka, *The Penal Colony*

Anthony Burgess, *A Clockwork Orange*

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J.D. Salinger, *Franny and Zooey*
Tennessee Williams, *A Streetcar*
Named Desire

John Vitkus, *Psychology Department*
Spring, M W 1:10-2:25.

FSM BC 1411x. Two Nations: Views on Wealth and Poverty.
W. Lazonick.

FSM BC 1412y. Illness and Society.
Critical analysis of illness as protection for the continuity of society, as a symptom of its weakness, and as punishment for wrongdoing. We will also examine social concepts of health and social standards for what is "normal."

Plato, *Republic*, excerpts
Miller, *The Crucible*
Tolstoy, *The Death of Ivan Ilyich*
Sarton, *The Reckoning*
Gilman, *The Yellow Wallpaper*
Sontag, *Illness as Metaphor*
Goffman, *Stigma*
Freud, *Civilization and Its Discontents*

Theresa Rogers, *Health and Society Program*
Spring, M W 1:10-2:25.

V. CROSS-CULTURAL ENCOUNTERS

These seminars consider imaginative and analytic efforts by one culture to comprehend aspects of another culture, thereby making them conscious instances of such efforts.

FSM BC 1515y. Representations of Culture in Literature and Anthropology.

An examination of writings drawn from literature and anthropology, focusing on how they represent culture, cultural conflict, and different perceptions of reality. Readings include:

Herodotus, *Histories*, excerpts
Toqueville, *Democracy in America*
Zora Neale Hurston, *Of Mules and Men*
and *Their Eyes Were Watching God*
Eleanor Bowen, *Return to Laughter*
Joseph Conrad, *Heart of Darkness*
E.M. Forster, *Passage to India*
Vincente Crapazano, *Waiting*
Achebe, *Arrows of God*

Cynthia Novack, *Dance Department*
Spring. Hours to be arranged.

FSM 1512x. Theism, Atheism, and Humanism.

Images of the divine and the human, and of the human without the divine, in Eastern and Western traditions as gleaned from analyses of works of fiction, non-fiction, psychology, philosophy, and religion. Readings include:

Genesis, The Book of Job
The Bhagavad Gita
Tagore, "Sacrifice"
Endo, *Silence*
Wiesel, *Night*
Nietzsche, selections
Freud, *The Future of an Illusion*
Hesse, *Siddhartha*
Desai, *Cry of the Peacock*

Brian Smith, *Religion Department*
Autumn, M W 11:00-12:15.

FSM 1516x. Conflicts Between Science and Society.

Opposition to scientific ideas by religious or political authorities; fear of science and attempts to restrict or suppress it: the execution of Michael Servetus; the suppression of Galileo; opposition to Darwinism; Lysenko and the destruction of genetics in the USSR; the fear of recombinant DNA research.

Frederick E. Warburton, *Biology Department*
Autumn, M W 11:00-12:15.

FSM BC 1517x. The Nature of Human Nature.

An exploration of the nature of human nature as seen from within four cultural contexts in the ancient world. Biblical, Greek, Indian and Chinese sources are mined for an understanding of different conceptions of what it means to be human, of human potential and fulfillment, of human dignity, the issue of equality and inequality, and the relation of the human to ultimate reality. Readings include selections from the books of *Genesis* and *Job*, Plato's *Apology*, *Phaedo*, and *Republic*, the *Chandogya Upanishad*, the Confucian *Analects*, the *Chuang Tzu*, the *Mencius*, and *Hsun Tzu*.

Irene Bloom, *Oriental Studies*
Autumn, Tu Th 10:35-11:50.

German

Office: 320 Milbank Hall

Telephone: 280-8312

Professors

Brigitte L. Bradley (Chairman), Gertrud M. Sakrawa

Lecturer

Regina Ayre

Instructor

Brunhilde Linke

Senior Associate

Marvin Shulman

Courses in the German Department are designed to develop proficiency in language skills and to present the traditions as well as the current developments in the literature and culture of the German-speaking countries: Austria, West Germany, East Germany, and Switzerland.

The language requirement in German is fulfilled by the completion of BC 1204, *Intermediate Course II*. Entering students with a previous knowledge of German will be placed in the appropriate course on the basis of their CEEB scores or in accordance with their achievements on a placement test taken prior to registration.

The department offers three levels of language instruction, with an equal emphasis on reading, writing, oral comprehension, and speaking. The *Elementary Full-Year Course*, German BC 1001-BC 1002, includes a series of videocassettes that the students will view at the rate of one a week to supplement their five classroom contact hours. In the *Intermediate Course I and II*, German BC 1203 and BC 1204, fictional prose provides a basis for expanding the students' knowledge of contemporary life and thought in the German-speaking countries. In *Advanced German*, German BC 3005, and BC 3006, items in the German press and taped German broadcasts are used as aids to broaden the students' awareness of current trends and events.

A second track of language courses, BC 1007, *Elementary German: Intensive Reading*, and BC 1208, *Intermediate German: Intensive Reading*, is designed for students interested in acquiring only a reading knowledge of German. These courses may not be used to fulfill the language requirement.

Students who have completed, or have been exempted from, BC 1204 may enroll in BC 3005 or BC 3006, *Advanced German*, or in literature courses taught in German. The department recommends that German BC 3011, *Introduction to German Literature and Civilization*, be elected as the first literature course. Special permission is required for enrollment in German BC 3061, the *Seminar*.

The literature courses taught in German have the twofold objective of combining the study of significant works, literary trends, and cultural manifestations with advanced practice in the use of German as a medium of intellectual communication.

The department will assist and advise those students who are interested in opportunities to study in a German-speaking country

REQUIREMENTS FOR THE MAJOR

The major in German includes 9 courses—German BC 3005 or BC 3006, BC 3011 and BC 3061, and six additional advanced courses taught in German. The major examination consists of a three-hour written section (in English) and of an individual oral examination of one-half hour (in German). With special permission, a student may submit a senior essay (BC 3062) in place of the written section.

German

The department recommends that majors include in their programs courses in another European culture and in other disciplines such as history, art history, and philosophy. While a major in German prepares students for graduate study in German, both a major *and*, to a lesser degree, a minor in German prepare them also for advanced study in a discipline in which competence in the German language and a knowledge of the culture of the German-speaking countries are either required or recommended.

A student who selects German as part of a combined major will establish her special program in consultation with the departments concerned.

REQUIREMENTS FOR THE MINOR

The minor in German requires five courses, German BC 3005 or BC 3006, BC 3011, and three additional literature courses taught in German, one of which may be BC 3061.

COURSES OF INSTRUCTION

LANGUAGE COURSES

GER BC 1001x-GER BC 1002y. Elementary Full-Year Course.

Fundamentals of German grammar, comprehension of the spoken language, reading, writing, and speaking. Intensive aural-oral practice.—M. Shulman and Staff.

Work with video cassettes is required.

4 points. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.

Sections I, II M W F 9:00.

Section III M W F 12:00.

In addition, each student must register in the Department for one of the following sections:

Sections I, II Tu Th 9:00.

Section III Tu Th 12:00.

GER BC 1001y. Elementary Full-Year Course. Part I.

Same as BC 1001x, but given in the Spring Term.—B. Linke.

4 points. No credit is given for BC 1001 unless BC 1002 has been satisfactorily completed.

M Tu W Th F 12:00.

GER BC 1002x. Elementary Full-Year Course. Part II.

Same as BC 1002y, but given in the Autumn Term.—B. Linke.

4 points. M Tu W Th F 12:00.

**FOR ELEMENTARY AND
INTERMEDIATE READING COURSES**
SEE GERMAN BC 1007, BC 1208.

GER BC 1203x. Intermediate Course I.

Complete grammar review through regular

exercises. Texts by modern authors are used for close and rapid reading. Practice in conversation aims at enlarging the vocabulary necessary for daily communication.—G. Sakrawa and B. Linke.

Prerequisite: BC 1002 or the equivalent.

4 points.

Section I M Tu W Th 9:00.

Section II M Tu W Th 1:10.

GER BC 1203y. Intermediate Course I.

Same as BC 1203x, but given in the Spring Term.—M. Shulman.

Prerequisite: BC 1002 or the equivalent.

4 points. M Tu W Th 1:10.

GER BC 1204y. Intermediate Course II.

Language study based on literary texts: several short stories, one play, one short novel. Assignments include compositions in German and exercises of grammatical forms, both related to the texts. Class discussions in German provide oral and aural practice.—B. Bradley and G. Sakrawa.

Prerequisite: BC 1203 or the equivalent.

3 points.

Section I M W F 9:00.

Section II M W F 10:00.

GER BC 1204x. Intermediate Course II.

Same as BC 1204y, but given in the Autumn Term.—B. Bradley.

Prerequisite: BC 1203 or the equivalent.

3 points. M W F 10:00.

GER BC 3005x, BC 3006y. Advanced German.

Reading material of topical variety. Discussion of current events taken from items in the German press and broadcasts. Use of tape

German

cassettes. Weekly short papers and oral reports. These courses may be taken in reverse sequence.—G. Sakrawa.

Prerequisite: BC 1204 or the equivalent.

3 points. M W F 10:00.

GER BC 1007y. Elementary German:

Intensive Reading.

Comprehension of written German. Extensive reading of simple expository texts, fundamental vocabulary, and the essentials of grammar and syntax.—M. Shulman.

No previous knowledge of German is required.

This course is not open to students who have completed German BC 1001-BC 1002.

3 points. M W F 9:00.

GER BC 1208y. Intermediate German:

Intensive Reading.

Comprehension of written German. Reading of materials in areas of specialization in the humanities, social sciences, and the natural sciences; attention is given to the structural forms encountered when translating German scholarly texts.—M. Shulman.

Prerequisite: BC 1007 or the equivalent.

3 points. Not offered in 1988-89.

LITERATURE COURSES

The literature courses listed below are conducted in German. Examinations are written in English. Papers may be written in German or English.

GER BC 3011x. Introduction to German Literature and Civilization.

German literature in a historical-cultural context from the late eighteenth to the twentieth century. Selected readings from Lessing to Brecht.—B. Bradley.

Prerequisite: BC 1204 or the equivalent.

3 points. M W F 11:00.

H

GER BC 3014x. German Literature and Culture around the Turn of the Twentieth Century.

One of the richest and most diversified periods of cultural life in Germany and Austria. Study of Modernism based on plays, narratives, and poems by Hauptmann, Hofmannsthal, Kaiser, Schnitzler, Mann, Rilke, and Kafka.—B. Bradley.

Prerequisite: BC 1204 or the equivalent.

Alternate years. Not offered in 1988-89.

3 points.

H

GER BC 3015y. Goethe.

Major works of Goethe in relation to his life

and his times: *Werther*, *Iphigenie*, *Wilhelm Meister*, *Wahlverwandtschaften*, *Faust I*, and poems.—G. Sakrawa.

Prerequisite: BC 1204 or the equivalent.

Alternate years. Not offered in 1988-89.

3 points.

H

GER BC 3016y. The Romantic Movement in Germany 1790-1820.

Theory of Romantic poetry as proposed by the Schlegel brothers; circles of Jena, Berlin and Heidelberg; prominent women of the time. Movement's impact on scholarship and translation. Poetic works by Tieck, Novalis, Hölderlin, Hoffmann, and Eichendorff.—G. Sakrawa.

Prerequisite: BC 1204 or the equivalent.

Offered in 1988-89

Offered every three years.

3 points. Tu Th 9:10-10:25.

H

GER BC 3018x. Schiller and Kleist.

A study of Schiller's aesthetic writings, of Kleist's novellas, and of major dramatic works by both authors in the context of the intellectual and political climate of their times.—G. Sakrawa.

Prerequisite: BC 1204 or the equivalent.

Alternate years. Not offered in 1988-89.

3 points.

H

GER BC 3025y. The Age of the Bourgeoisie in German Literature.

Drama, poetry, and prose by Heine, Grillparzer, Büchner, Wagner, Keller, Storm, Stifter, and Fontane.—G. Sakrawa.

Prerequisite: BC 1204 or the equivalent. Offered every three years. Not offered in 1988-89.

3 points.

H

GER BC 3026y. Post-War German Theatre.

Brecht and well-known playwrights of the post-war period: Weiss, Frisch, Dürrenmatt, Strauss, and others.—B. Bradley.

Prerequisite: BC 1204 or the equivalent.

Alternate years. Offered in 1988-89.

3 points. M W 1:10-2:25.

H

GER BC 3028x. Contemporary German Prose Fiction.

Works by writers from West and East Germany, Austria and Switzerland: Böll, Bachmann, Frisch, Grass, Christa Wolf, Handke, Frischmuth, and others. Analyses concentrate on the effectiveness of fictional writings in exploring problems of individual and general concern.—B. Bradley.

German

Prerequisite: BC 1204 or the equivalent.
Alternate years. Not offered in 1988-89.
3 points.

H

GER BC 3045x. Literary Traditions in the Time of the Medieval Empire.

Introduction to the feudal age and to German literature from 1200 to about 1400: *Parzival*, *Tristan*, and *Das Nibelungenlied*. Texts used for reading are in modern German.—R. Ayre.
Prerequisite: BC 1204 or the equivalent.
Offered every three years. Offered in 1988-89.
3 points. Tu Th 10:35-11:50.

H

GER BC 3046x. German Literature in the Eighteenth Century.

An introduction to the Enlightenment and Storm and Stress through works by Lessing, Wieland, Herder, the young Goethe, and the young Schiller.—G. Sakrawa.
Prerequisite: BC 1204 or the equivalent.
Alternate years. Not offered in 1988-89.
3 points.

H

GER BC 3061x. Seminar. Christa Wolf.

Themes, literary structures, and female perspective in the works of the best known East German novelist.—B. Bradley.

Prerequisite: Major status or permission of the instructor.

Alternate years. Offered in 1988-89.

4 points. M 2:10-4:00.

GER BC 3062y. Senior Essay.

The topic must be related to one of the literature courses that the student has completed in the department.—B. Bradley and G. Sakrawa.
Open to senior majors. Permission of the instructor required.

3 points. Regular consultations with the instructor at hours to be arranged.



History

Office: 418 Lehman

Telephone: 280-2159

Professors

Robert A. McCaughey (Dean of the Faculty), Suzanne F. Wemple

Associate Professors

William C. McNeil, Rosalind N. Rosenberg (Chair), Nancy Woloch (Visiting)

Assistant Professors

Mark C. Carnes, Jeffrey Merrick, Herbert E. Sloan, Barbara L. Tischler

Visiting Assistant Professors

Timothy J. Gilfoyle, Catherine Kudlick

Other officers of the University offering courses in History:

Professors

Roger S. Bagnall, J.M.W. Bean, Caroline Bynum, David Cannadine, Lawrence A. Cremin, Istvan Deak, Ainslie Embree, Barbara Fields, Eric Foner, John A. Garraty, Nina Garsoian, Arthur Goren, Henry F. Graff, Leopold H. Haimson, William V. Harris, Graham W. Irwin, Kenneth Jackson, Herbert S. Klein, Hollis R. Lynch, Edward Malefakis, Eric L. McKittrick, Walter Metzger, John H. Mundy, Robert O. Paxton, Marc Raeff, Eugene Rice, William R. Roff, David J. Rothman, James P. Shenton, J.W. Smit, Fritz Stern, Alden T. Vaughan, S. Razi Wasti, Isser Woloch, Richard Wortman, Marcia Wright, Yosef H. Yerushalmi

Associate Professors

Carol Gluck, Michael Stanislawski, Nancy Leys Stepan

Assistant Professors

Elizabeth Blackmar, Laurence W. Dickey, Joshua Freeman, Atina Grossmann, Michael Hanagan, Rhoads Murphy, Marc Van De Mierop, Mark von Hagan, Anne Withington

History, which includes the whole of human experience, helps us understand ourselves in the context of our own times and traditions through the study of times and traditions different from our own. It provides perspective on the present through examination of change and continuity in the development of our political, economic, social, religious, and cultural ideas and institutions in preceding centuries. History means not only the record of the past but also the discipline of investigation and interpretation of the past. There is no one way of doing history, but doing history necessarily involves the collection and evaluation of various types of evidence—quantitative as well as qualitative—from primary sources. The study of history, which develops habits of critical thinking and effective writing, should be of value not only to undergraduates who intend to pursue advanced degrees in the field, but also to all students interested in exploring the diversity and complexity of the human past and in improving their analytical and expository skills.

Barnard history courses are numbered according to the following scheme of classification:

- 1000-level introductory lecture courses
- 3000-level advanced lecture courses
- 3400-level seminars
- 3700-level senior research seminars
- 3900-level independent research seminars

History

Lecture courses are defined more broadly—chronologically, geographically, thematically—than seminars, which characteristically involve reading and discussion of primary and secondary sources on more specialized subjects. Students must apply for admission to seminars by filling out forms available in the departmental office. Deadline for applications for Autumn 1988 seminars: April 15, 1988. Deadline for applications for Spring 1989 seminars: November 18, 1988.

Students should consult the Columbia College catalogue for full descriptions of Columbia history courses and for regulations concerning enrollment in these courses. Application forms for Columbia seminars, due by the deadlines mentioned above, are available in 611 Fayerweather and in 418 Lehman. Certain Columbia graduate (“G”) courses are open to qualified history majors with the approval of the Barnard chair and the Columbia instructor. For course descriptions see the bulletin of the Graduate School of Arts and Sciences.

Students will receive six points of credit for a score of five and three points of credit for a score of four on the Advanced Placement Examination in American or European history.

REQUIREMENTS FOR THE MAJOR

Students who intend to major in history should consult a member of the department in their sophomore year to plan their academic programs.

The history major requires a minimum of eleven courses, eight in the area of concentration and three outside the area of concentration. The two principal areas of concentration are European and American history, but majors may, in consultation with their advisers and with the approval of the chair, concentrate in some other field, such as ancient, medieval, Jewish, Asian, or African history. The eleven required courses must include:

1. Three 1000-level courses (or their equivalent)
2. Two seminars
3. The two-semester senior research seminar (HIS BC 3791-2 or HIS 3793-4).

Majors may, with the approval of their advisers, take two of their eleven courses outside the department, provided that such courses are closely related to their concentrations.

SENIOR RESEARCH SEMINAR

The senior research seminar, in which students write their senior essays (30–50 pages), represents the culmination of the undergraduate history major. Students should discuss tentative topics with their advisers by the end of the junior year. Half-way through the first semester of the senior year students must submit a formal prospectus defining the problem under investigation, outlining the issues involved, and identifying the primary and secondary sources consulted. They must draft part of the essay by the end of the autumn semester, then complete their research and writing in the spring.

REQUIREMENTS FOR THE MINOR IN HISTORY

The minor in history requires five courses, four in an area of concentration and one outside the concentration. The five courses must include one seminar. Students planning to minor in history should consult the department chair.

COURSES OF INSTRUCTION

LECTURES, ANCIENT, MEDIEVAL, JEWISH, AND MODERN EUROPEAN HISTORY
HIS BC 1003x. The Early Middle Ages: 300 to 1050.

Fusion of Graeco-Roman, Judeo-Christian and Germanic traditions, and emergence of Europe as a cultural unit. Carolingian and Saxon-Salic empires.—S. Wemple.
3 points. Tu Th 10:35-11:50. **S**

History

HIS BC 1004y. The High Middle Ages: 1050-1450.

Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings.

— S. Wemple.

3 points. Tu Th 10:35-11:50.

S

HIS BC 1011x. Introduction to European History: Renaissance to French Revolution.

Political, economic, social, religious, and intellectual history of early modern Europe, including the Renaissance, Reformation, and Counter-Reformation, absolutism, Scientific Revolution, and Enlightenment.—J. Merrick.

3 points. M W 11:00-12:15.

S

HIS BC 1012y. Introduction to European History: French Revolution to the Present.

Emergence of revolutionary and counter-revolutionary mass political movements; European industrialization, nationalism and imperialism; twentieth-century world wars, the Great Depression and Fascism.—W. McNeil.

3 points. M W 11:00-12:15.

S

HIS BC 3023y. Europe, 1660-1789.

Political, economic, social, religious, and intellectual history of Europe from the Restoration in England to the Revolution in France.—J. Merrick.

3 points. M W 1:10-2:25.

S

HIS W 4275x. European International Relations, 1914 to the Present.

From the outbreak of the First World War to the Cold War and beyond, with a focus on the relationship between internal social, economic and political structures of nation states as they influence the formation of foreign policy.—W. McNeil.

3 points. Not offered in 1988-89.

S

HIS W 1001y. Ancient History of Egypt and Israel.

M. Van De Mieroop.

M W 11:00-12:15.

S

HIS W 1002x. Ancient History of Mesopotamia and Asia Minor.

M. Van De Mieroop.

M W 11:00-12:15.

S

HIS W 1150x. Introduction to European History: Renaissance to the Enlightenment.

E. Rice.

M W 6:10-7:00, plus 1 hour to be arranged.

S

HIS W 1151y. Introduction to the History of Europe: From the Enlightenment to the Present.

E. Malefakis.

M W 6:10-7:00, plus 1 hour to be arranged.

S

HIS W 1310x-W1311y. Main Currents in Eastern European History, I and II.

D. Van Horn.

M W 2:40-3:55.

S

HIS W 1410y. Main Currents in Middle Eastern History.

R. W. Bulliet.

M W F 10:00-10:50.

S

HIS W 3154x. France since 1848.

R. O. Paxton.

Tu Th 4:10-5:25.

S

HIS W 3162y. Origins of Capitalism.

J. W. Smit.

Hours to be arranged.

S

HIS W 3205x. European Politics and Society, 1870-1919.

M. Hanagan.

Tu Th 1:10-2:25.

S

HIS W 3206y. European Politics and Society since 1919.

I. Deak.

M W 6:10-7:25.

S

HIS W 3210y. Biology and Society since the 18th Century.

N. Leys Stepan.

Tu Th 10:35-11:50.

S

HIS W 3227x. British History, 1688-1832.

D. Cannadine.

Tu Th 10:35-11:50.

S

HIS W 3228y. British History, 1832-1988.

D. Cannadine.

Tu Th 10:35-11:50.

S

HIS W 3288x. England, 500-1450.

J. M. W. Bean.

Tu Th 1:10-2:25.

S

HIS W 3224y. The Twelfth Century Renaissance.

C. Bynum.

M W 11:00-12:15.

S

HIS W 3361x. History of the Soviet Union.

M. von Hagen.

M W 2:40-3:55.

S

HIS W 3506y. Medieval Jewish History.

T. Fishman.

M W 1:10-2:25.

S

History

HIS W 3513x. Anti-Judaism and Anti-Semitism in Historical Perspective.
Y. Yerushalmi.
Tu Th 10:35-11:50. S

HIS W 3545x-3546y. Modern Jewish History, I and II.
M. Stanislawski.
M W 11:00-12:15. S

SEMINARS, ANCIENT, MEDIEVAL, AND MODERN EUROPEAN HISTORY

HIS BC 3435y. Witchcraft in Early Modern Europe.
Origins, patterns, and decline of the witchcraft persecutions of the sixteenth and seventeenth centuries, with emphasis on intellectual, social, and comparative history.—J. Merrick.
Enrollment limited. Preregistration required.
4 points. Tu 2:10-4:00. S

HIS BC 3439x. The Great War and the Modern World.
The course and impact of the First World War on modern society. Topics will include the social, economic, political, cultural and military transformation brought by the war with emphasis on Europe and the United States.—W. McNeill.
Enrollment limited. Preregistration required.
4 points. M 2:00-4:00. S

HIS BC 3791x-HIS BC 3792y. Senior Research Seminar in European History.
Individual research and writing in medieval, early modern, and modern European history. See Requirements for the Major for details.—Staff.
4 points. Tu 4:10-6:00. S

HIS W 3547y. Assimilation and Jewish Identity in Modern Times.
Y. Yerushalmi.
Th 11:00-12:50. S

HIS W 3574x. The History of Israel in the Second Millennium B.C.
M. Van De Mieroop.
M 11:00-12:50. S

HIS W 3778y. Women in the Middle Ages.
C. Bynum.
M 4:10-6:00. S

HIS W 3792x. Race, Gender, and Science in History.
N. Leys Stepan.
Tu 6:10-8:00. S

HIS W 3842y. Popular Culture in Early Modern Europe.
P. Sahlins.
W 2:10-4:00. S

HIS W 3852y. Scientific Discovery and Social Change.
N. Leys Stepan.
Tu 4:10-6:00. S

HIS W 3853x. Fascism.
R. O. Paxton.
W 4:10-6:00. S

HIS W 3861y. Origins and Development of the Welfare State in Western Europe and the United States.
M. Hanagan.
Hours to be announced. S

HIS W 3910x. Family and Sexuality in the Graeco-Roman World.
W. V. Harris.
Tu 4:10-6:00. S

HIS W 3972y. British Imperialism, 1870-1914.
W. Roff.
M 4:10-6:00. S

HIS W 3983x. The Making of the British Monarchy.
D. Cannadine.
W 2:10-4:00. S

HIS W 3993x. Mass Protest and Social Revolution in Modern Europe since 1750.
M. Hanagan.
M 2:10-4:00. S

LECTURES, AMERICAN HISTORY

HIS BC 1051x. Survey of American Civilization to the Civil War.
The major theological and social concerns of seventeenth-century English colonists; the political and ideological process of defining an American; the social and economic forces that shaped a distinctive national identity; the nature of the regional conflicts that culminated in civil war.—H. Sloan.
3 points. Tu Th 10:35-11:50. S

HIS BC 1052y. Survey of American Civilization since the Civil War.
The major intellectual and social accommodations made by Americans to industrialization and urbanization; patterns of political thought from Reconstruction to the New Deal; selected topics on post-World War II developments.—R. Rosenberg.
3 points. Tu Th 10:35-11:50. S

History

HIS BC 3061x. American Culture to 1920: The Formation of National Identity.

An analysis of the variety of cultural expressions that emerged from the creation of the Republic through World War I. Literary works, art, music, and photography will be considered, as will their role in the development of regional identities and the assertion of a national character.—B. Tischler.

3 points. Tu Th 10:35-11:50.

S

HIS BC 3062y. American Culture since 1920: The Assertion of a National Identity.

An analysis of the relationship of cultural activity to post-World War I American society. Topics include the Harlem Renaissance, the impact of war on American culture; government sponsorship of artistic activity in the Great Depression, the culture of conformity. Sources include literary works, music, art, and film.—T. Gilfoyle.

3 points. Tu Th 4:10-5:25.

S

HIS BC 3067x. America since 1945.

A consideration of the cold war, containment, and the atomic bomb; McCarthyism; the Civil Rights movement; the Vietnam War; student unrest and the counterculture; the response to the 1960s. Emphasis on relation between domestic and foreign affairs.—M. Carnes.

3 points. M W 11:00-12:15.

S

HIS BC 3082x. American Women in the Twentieth Century.

A consideration of women's changing place in modern America; the "family claim" women in the workplace; educational expansion; the battle for suffrage; social reformers; the sexual revolution; women in the professions; the crisis of depression and war; the feminine mystique; the new feminism.—R. Rosenberg.

3 points. Tu Th 2:40-3:55.

S

HIS BC 3052y. The Constitution in Historical Perspective.

The development of constitutional doctrine, 1787 to the present. The Constitution as an experiment in republicanism; states rights and the Civil War amendments; freedom of contract and its opponents; the emergence of civil liberties; New Deal intervention and the crisis of the Court; the challenge of civil rights.—H. Sloan.

3 points. Tu Th 2:40-3:55.

S

HIS W 1109x. Main Currents in American History, 1492-1877.

E.L. McKittrick.

Tu Th 5:40-6:30, plus 1 hour to be arranged.

HIS W 1110y. Main Currents in American History since 1877.

H. Graff.

Tu Th 5:40-6:30, plus 1 hour to be arranged.

HIS W 3121x. America in the Era of Slavery and Jacksonian Democracy.

J. Shenton.

M W 2:40-3:55.

HIS W 3122y. America in the Era of the Civil War and Reconstruction.

J. Shenton.

M W 2:40-3:55.

HIS W 3133x - HIS W 3134y. The United States in the 20th Century.

W.P. Metzger.

Tu Th 1:10-2:25.

HIS W 3001x. Afro-American History to 1900.

E. Foner.

M W 4:10-5:25.

S

HIS W 3548x. American Jewish History.

A. Goren.

Tu Th 4:10-5:25.

S

HIS W 3640y. American Social History.

B. Blackmar.

Tu Th 5:10-6:25.

S

HIS W 3642y. The Radical Tradition in America.

E. Foner.

M W 4:10-5:25.

S

HIS W 3648x. History of the South.

B. Fields.

Tu Th 11:00-12:15.

HIS W 3651y. The United States since 1945.

J. Freeman.

M W 11:00-12:15.

HIS W 3652x. American Labor during the 20th Century.

J. Freeman.

M W 11:00-12:15.

SEMINARS, AMERICAN HISTORY

American Studies-History ASH BC 3401x. Cultural Approaches to the American Past.

A survey of theoretical approaches to cultural history: myths and symbols in American

History

literature and history; studies of ethnicity, class, race, and gender; multidisciplinary studies; and investigations of popular, mass, folk, and material culture.—B. Tischler.
4 points. W 11:00-12:50. S

HIS BC 3479x. America in the 1960s.
The political, social, and technological changes that made the 1960s a period of particular turmoil. The emergence of non-party politics, the nation at war, the quest for racial justice, the emergence of the new feminism will be examined.—B. Tischler.
Enrollment limited. Preregistration required.
4 points. Th 2:10-4:00. S

HIS BC 3450y. History of Childhood in America.
An examination of childhood (including adolescence) in various contexts: Puritan New England, slave plantations, nineteenth-century middle class families, the 1960s. Emphasis on primary sources, including children's literature and child-rearing manuals, and on the role of church, school, workplace, and peers in the process of acculturation.—M. Carnes.
Enrollment limited. Permission of the instructor required.
4 points. W 2:10-4:00. S

HIS BC 3455y. Reckoning with the Past: History, Historians, and the Computer.
A consideration of the impact of quantitative methods upon American historical inquiry. Readings include interpretive accounts of the American past utilizing a variety of such methods. Manipulation of historical data on IBM PC/XT and the use of appropriate software (dBaseII and SPSS/PC) will be an integrated part of the seminar. Fulfills Barnard QR requirement. No computer experience required.—R. Giordano.
Enrollment limited to 15 students. Permission of the instructor required.
4 points. MW 11:00-11:50, plus 2-hour lab. S

HIS BC 3465x. History of Sexuality in the United States.
An introduction to sexual behavior and ideologies in America from the colonial period to the present, with particular attention to how Americans structured and organized sexuality. Topics include changing gender roles and their impact on sexual relationships, the evolution of birth control and abortion, and the impact of medicine and politics on sexuality.—T. Gilfoyle.

Enrollment limited. Preregistration required.
4 points. Tu 2:00-4:00.

HIS BC 3484y. American Intellectual History since the Civil War.
A consideration of the history of certain major ideas (Darwinism, Progressivism, Marxism, Liberalism, neo-Conservatism) in their American context, of changes in the social structure of intellectual activity, and of the relationship of intellectuals to American society, from 1865 to the present.—R. McCaughey.
Enrollment Limited. Preregistration required.
4 points. W 4:10-6:00.

HIS BC 3461y. Education in American History.
A consideration of the place educational institutions, educational ideas, and educators have played in American life. Emphasis will be on the connection between education and social mobility.—T. Gilfoyle.
Enrollment Limited. Preregistration required.
4 points. M 4:10-6:00.

HIS BC 3489x. The Fourteenth Amendment and Its Uses.
The role of the 14th Amendment in shaping the modern American Constitution: theories of judicial review; the rise and fall of economic due process; the creation of civil liberties; the civil rights revolution; the end of states' rights.—H. Sloan.
Enrollment limited. Preregistration required.
4 points. Tu 4:10-6:00. S

HIS BC 3793x-HIS BC 3794y. Senior Research Seminar in American History.
Individually guided research in diverse aspects of American history and the presentation of results in seminar and in the form of the senior essay. See Requirements for the Major for details.
Open to senior majors; others by permission of instructor.
4 points. W 4:10-6:00.
x: Staff.
y: Staff.

HIS W 3779x. Seminar on Colonial America.
A. Withington.
M 2:10-4:00.

HIS W 3832x. Military History and Policy.
K.T. Jackson.
Tu 6:10-8:00.

HIS W 3884x. The American West.
A. Withington.
Tu 2:10-4:00.

History

HIS W 3891x. Women in Twentieth Century America.

R. Rosenberg.
W 2:10-4:00.

S

HIS W 3895y. Jeffersonian America, 1801-1828.

E.L. McKittrick.
Th 9:00-10:50.

HIS W 3896x. The Founding Fathers.

A.F. Withington.
Tu 2:10-4:00.

HIS W 3903x-3904y. The Presidency.

H. Graff.
Tu 9:00-10:50.

HIS W 3932x-3933y. Segregation and Racism: An American Dilemma.

J. P. Shenton.
Tu 2:10-4:00.

HIS W 3934x. The Immigrant and the City.

A. Goren.
Tu 1:10-3:00.

S

HIS W 3935x. Black Urban America.

H. Lynch.
Tu 4:10-6:00.

S

HIS W 3939y. From Melting Pot to New Pluralism.

A. Goren.
Th 4:10-6:00.

S

HIS W 3946x Social History of 20th-Century American Housing and Homelife.

E. Blackmar.
Tu 11:00-12:50.

S

HIS W 3889y. Research Seminar in Afro-American History.

E. Foner.
Tu 4:10-6:00.

S

HIS W 3901y. Recent American Social Thought.

W. Metzger.
Tu 4:10-6:00.

S

LECTURES, LATIN AMERICAN AND NON-WESTERN HISTORY

Oriental Civilizations-Middle East ORM V 3001x. Introduction to the Major Topics in Asian Civilizations: India and the Middle East.

A. Embree.
Tu Th 10:35-11:50.

S

East Asian EAS V 3310y. Rebellion and Revolution in China.

M. Zelin.

Tu Th 10:35-11:50.

East Asian EAS V 3650x. The Family in Chinese History.

R. Hymes.
M W 1:10-2:25.

HIS W 3720x. Southeast Asia in the 20th Century.

W. Roff.
Tu Th 2:40-3:55.

HIS W 3005y. Main Currents of African History.

M. Wright.
M W 2:40-3:55.

SEMINARS, LATIN AMERICAN AND NON-WESTERN HISTORY

HIS W 3810y. The Vietnamese Revolution and Its Associated Wars.

W. Roff.
M 4:10-6:00.

History-Middle East HME W 3901x. India in the Western Historical Imagination.

A. Embree.
W 4:10-6:00.

History-Religion HIR V 3820y. Religion and Society in Modern India.

A. Embree and J. Hawley.
Th 11:00-12:50.

HIS W 3992y. Topics in African Social History since 1870.

M. Wright.
Hours to be arranged.

HIS W 3948x. History of the Caribbean in the 20th Century.

H. Lynch.
Tu 4:10-6:00.

HIS BC 3799x, HIS BC 3799y. Independent Study.

Staff.
4 points.

OTHER OFFERINGS

Full description of courses offered by Barnard faculty of interest to students of history can be found elsewhere in this catalogue under the department or interdisciplinary program in which the course is offered. For Columbia graduate history lecture courses open to undergraduates ("4000 level") and courses jointly sponsored with other Columbia departments, see the Columbia University Bulletin.

Studies in the Humanities

Office: 314 and 321 Milbank Hall

Telephone: 280-2052/5416
-8312/5417

Studies in the Humanities is coordinated by a Committee from various departments in the Humanities:

Professor of French
Serge Gavronsky (Co-chairman)

Professor of English
Remington Patterson

Professor of Italian
Maristella Lorch

Professor of Oriental Studies
Barbara Stoler Miller (Co-chairman)

Professor of Philosophy
Mary Mothersill

Professor of Russian
Richard Gustafson

The offerings in Studies in the Humanities are designed to permit students to broaden their knowledge of humanistic traditions while complementing and enriching the specialization inherent in a major program. Readings in the Humanities courses, as well as Humanities C 1001, C 1002, may be used to fulfill distribution requirements.

Students may neither major nor minor in the Humanities.

COURSES OF INSTRUCTION

HUM V 3003x-V 3004y. Readings in European and American Literature and Philosophy of the Nineteenth and Twentieth Centuries.

Disintegration of traditional canons in ethics and aesthetics and the attempt to reestablish values in a world where their justification has become increasingly individual or relative. Works by Tolstoy, Dostoevsky, Balzac, Kate Chopin, Kleist, Baudelaire, Keats, M. Shelley, Goethe, Stendhal, Flaubert, are read in the first semester, and in the second, by James, Mann, Proust, Joyce, Yeats, Eliot, Woolf, Faulkner, Kafka, Sartre, Robbe-Grillet and García Márquez.—x: M. Jaanus; y: K. L. Selig. *Prerequisite: A grade of B or better in Humanities C 1001-C 1002 or permission of the instructor.* 3 points. M W 1:10-2:25. H

HUM BC 3201x. Colloquium in the Humanities: Tragedy and Transcendence: Greek and Sanskrit Drama.

Analysis of a group of Greek and Sanskrit dramas in terms of comparative themes, mythology, and poetics. Special emphasis on issues of recognition and transformation through the experience of drama. Works of Sophocles, Euripides, Aeschylus, Menander, Aristotle, Kalidasa, Bhasa, Bhavabhuti,

Sudraka, Bhatta Narayana, Bharata, and Dhananjaya.—B. Miller and H. Bacon. *Sophomore standing. Not offered in 1988-89.* 4 points. H

HUM BC 3203y. Colloquium in the Humanities: Emotion and Action: A Comparative Study of Eastern and Western Traditions.

An analysis of representative Chinese and Western philosophical texts relating to the nature and expression of emotion and the role of feeling in moral conduct and the good life.—M. Mothersill and I. Bloom. *Sophomore standing. Not offered in 1988-89.* 4 points. H

HUM BC 3498x. Seminar: Seen and Seeing — From Psychology to Ideology.

Modes of perceptions and the way they determine identity of self and other. Categories will include oneself as other, women in men's eyes, blacks seen and seeing. Works will include Ovid and Freud, Flaubert and Tanizaki, Fanon, Césaire and Sartre.—S. Gavronsky. *Enrollment by permission of the instructor.* 4 points. Tu 4:10-6:00.

HUM BC 3498x. Seminar: Myths, Metaphors, and Narratives of Travel.

Language of intercultural encounters explored through Asian and Western literary forms of epic, story, and novel. Readings include the

Studies in the Humanities

Odyssey, Ramayana, 1001 Nights, Travels of Marco Polo, A Passage to India, Heart of Darkness, Orlando, Moby Dick.—B. Miller.
Not offered in 1988-89. Enrollment by permission of the instructor.

4 points.

H

The following courses represent a selection of departmental offerings that focus on the complex ways in which humanistic activity involves translations of ideas, emotions, and forms across barriers of time, space, and language.

French FRE BC 3041x. Twentieth Century French Thought.

Reading, writing, and criticism in the major movements of the century. Authors will include Breton, Sartre, Barthes and Derrida.—S. Gavronsky.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024 or the permission of the instructor.

3 points. Tu Th 1:10-2:25

H

French FRE BC 3042. Twentieth Century French Poetry.

Analysis of some of the major poets of the century centering on Eluard, Michaux, and Ponge. Special attention given to post-1945 poetry and poetics in the works of Bonnefoy, du Bouchet, Albiach, Risset, Pleyne and Roubaud. J. Risset and J. Roubaud will participate.—S. Gavronsky.

3 points. Not offered in 1988-89.

Italian ITA V 3469y. Renaissance

Humanism: Its Sources, Forms and Legacy.

Essential aspects of the humanistic tradition.—M. Piccolomini.

Prerequisite: One course in either Renaissance history, philosophy, religion, literature or art. Reading knowledge of Latin recommended but not required.

3 points. M 4:10-6:00.

H

Italian ITA V 3641y. The Italian Theatre and Its Contributions to European Theatre.

Tragedy, comedy, *commedia dell'arte* and melodrama.—M. Lorch.

3 points. Not offered in 1988-89.

Linguistics LIN V 3410y. The Science of Linguistics and the Art of Translation.

Linguistic patterns and the application of linguistic techniques in both process of translation and the comparison of original and translated version of a text. Texts include literary, Biblical, and journalistic material in

bi- or multi-lingual versions, and students will use materials in languages familiar to them for analysis and translation.—J. Malone.
Prerequisite: V 1101.

Enrollment limited to 25 students. Advance sign-up required.

3 points. Tu Th 9:10-10:25.

S

Linguistics LIN V 3412y. Linguistics and the Translation of Poetic Language.

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g., by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include monolingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by the instructor and others by the students.—J. Malone.

Prerequisite: V 1101.

Enrollment is limited to 25 students. Advance sign-up required.

3 points. Not offered in 1988-89.

S

ORH V 3399x, ORH V 3400y.

Oriental Humanities Colloquium.

Major works of Middle Eastern, Indian, Chinese and Japanese origins. V 3399x: Koran, Sufi poetry, Upanishads, Buddhist sutras, *Bhagavad Gita*; V 3400y: *Analects*, *Tao-te Ching*, *Dream of the Red Chamber*, *Tale of Genji*, and Chinese and Japanese poetry.—I. Bloom, B. Miller, and Staff.

Prerequisite: Two courses from among literature, philosophy, religion and Humanities, or permission of the instructor.

4 points.

Section I W 4:10-6:00.

Section II (V 3400y only) Th 2:10-4:00.

H

Oriental Humanities ORH V 3200x.

Oriental Encounters.

Oriental classics of India, China, and Japan viewed through the perceptions of Emerson, Thoreau, Whitman, Eliot, Pound, Merton, Kerouac, Ginsberg and Snyder. The *Bhagavad Gita*, the *Dhammapada*, Zen dialogues and other courses relevant to the work of these writers.—B. Miller.

3 points. Not offered in 1988-89.

H

Studies in the Humanities

Philosophy PHI V 3803y. The Concept of Beauty.

Introduction to aesthetics as an attempt to develop a systematic theory of criticism. Theory is tested against critical findings in fields of music, literature, dance, and the visual arts; readings from classical and contemporary sources.—M. Mothersill.

Prerequisite: One philosophy course or permission of the instructor.

Not offered in 1988-89.

3 points.

H

Philosophy PHI V 3850x. Concept of Literature.

A study of the philosophical problems connected with truth and meaning in the literary arts, especially poetry. The focus will be on discoveries made by close readings, rhetorical analysis and deconstruction. Selected readings from Coleridge, Kierkegaard, Heidegger, Richards, Empson, Wimsatt, De Man, Hollander, and others.—R. Tragesser.

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 2:40-3:55.



Italian

Office: 206 Milbank Hall

Telephone: 280-5418, 3577

Professor

Maristella de Panizza Lorch (Chairman)

Lecturers

Furio Colombo, Manfredi Piccolomini

Instructor

Gabriel Simoncini

Other officers of the University offering courses in Italian:

Professors

John C. Nelson,¹ Olga Ragusa, Luciano Rebay

Assistant Professors

JoAnn Cavallo, Jared Becker

Lecturer

Margherita Repetto Alaia

¹Absent on leave, Autumn 1988.

Undergraduate instruction in Italian has long been fully and successfully integrated among the various undergraduate schools—Barnard College, Columbia College, and the School of General Studies. All courses are open to Barnard students. For students who have had some Italian, or who have a good knowledge of French or Spanish, but do not feel their background is strong enough for the intermediate course, the comprehensive elementary and intermediate course is recommended as the best way to review what they already know and rapidly proceed beyond it. The course in Italian written and oral style, though part of the requirements for a major in Italian, is open to all qualified students whose main goal is to improve their competence in the language as distinct from its literature.

A major in Italian offers the advantages of closely supervised work for a small number of students. Through the seminar in Italian literature, the major can study in a chosen area under the experienced guidance of a specialist.

The courses given in English have no prerequisites and should be attractive to students majoring in other departments who, nevertheless, wish to study Italian literature.

The Barnard Italian department office is 206 Milbank Hall, and the Columbia department is housed in the Casa Italiana. The Center for International Scholarly Exchange and the Center for Italian Studies sponsor a program of lectures, concerts, poetry recitations, films, and informal gatherings, which will enrich the learning experience of the student and offer opportunities for meeting distinguished Italian and Italian-American visitors to the University. The Paterno Library contains the Italian literature and language collections.

The department offers a year of study at the University of Rome under the auspices of the Center for International Scholarly Exchange. It also offers a summer school in Florence using the facilities of Syracuse University.

Graduate courses are open to qualified students upon consultation with the chairman.

ITALIAN STUDIES (Advisers: Professors Colombo, Lorch, and Piccolomini)

The program aims to encourage the interest of students in contemporary Europe by focusing on Italy, both for its own sake and as a kind of test-case for the study of a

rapidly changing European society. It offers a specialization to students who have an interest in one social science *and* in Italy at the same time.

Specific programs are planned with the adviser on the basis of a major's particular interests and needs. In all a major must take at least 12 courses with concentration in one particular discipline:

Italian V 1301-V 1302	<i>Comprehensive Elementary and Intermediate Italian</i>
or show sufficient proficiency;	
Italian V 3333-V 3334	<i>Introduction to Italian Literature</i>
and one year of other Italian courses in Italian or English;	
3 History courses:	
Italian Studies BC 3003	<i>Italian Cultural History, 1914-1944</i>
Italian Studies BC 3004	<i>Italian Cultural History, 1944 to the Present</i>

Two courses in Italian culture to be chosen with the advisers.

Italian Studies BC 3191, BC 3192, *Senior Seminar*, in which the student will prepare her senior essay; and a minimum of three additional courses in one social science of the student's choice.

Double majors whose language requirement is met in Italian are welcome.

Some fellowships for studying in Italy are available to majors in this program.

COURSES OF INSTRUCTION

ITS BC 3003x. Italian Cultural History 1914-1944: From the Origins to the End of Fascism.

Seminar. The economic and social conditions of Italy before World War I. Pre-Fascist Italian society; the role of the Savoy monarchy; the wide gap between cities and country; in mass movements; the socialists and the catholics. The role of poets and writers as political agitators: from Marinetti to D'Annunzio. Mussolini and the emergence of the middle class. The Fascist "revolution," its establishment, its triumph in the Ethiopian war, its decline with the second world war.—M. Piccolomini.

3 points. M 4:10-6:00. Third hour to be arranged.

ITS BC 3004y. Italian Cultural History 1944 to the Present: The Establishment and Development of Democracy.

Seminar. The rebirth of an industrial country: character of Italian industrialization. East-West polarization and the role of Italy. The Italian "miracle" of the sixties. Social trouble and terrorism in the seventies. The new mass movements of the eighties: women, youth,

For other courses in Italian, History, and the social sciences, consult the advisers.

minorities. Italy and the European cultural, economic and political community.—M. Piccolomini.

3 points. M 4:10-6:00. Third hour to be arranged.

Italian-Political Science ISP G 4415y. Social and Political Institutions in Italy Today. Major Italian institutions; their operation in the Italian social and cultural structure.—F. Colombo.

3 points. Th 4:10-6:00. Third hour to be arranged. S

History HIS W 1150x, HIS W 1151y. Introduction to the History of Europe: from the Renaissance to the Present.

J. Mundy.
3 points. M W 6:10-7:00. Third hour to be arranged.

ITS BC 3191x, ITS BC 3192y. Senior Seminar. Guidance in research and writing of a critical essay by members of the staff of the program.—F. Colombo and M. Piccolomini.

Required for senior majors.
4 points. Hours to be arranged.

Italian

REQUIREMENTS FOR THE MAJOR

The courses in the Department of Italian are designed to develop proficiency in all the language skills and to present the literary and cultural traditions of Italy. The program of study is to be planned as early as possible with the Chairman.

The following courses are required unless advanced standing is attained by the departmental achievement test or by the Advanced Placement examination:

Italian V 1101-V 1102

Elementary Full-Year Course

Italian V 1201-V 1202

Intermediate Course

or

Italian V 1301-V1302

Comprehensive Elementary and Intermediate Course:

Thirty courses are required for the major including:

Italian V 3333-V 3334

Introduction to Italian Literature

Italian V 3335-V 3336

Italian Written and Oral Style

Italian V 3993-V 3994

Seminar in Italian Literature

plus at least 12 more points in Italian courses numbered above Italian V 1302.

Work in another foreign language or in Italian Studies is highly recommended.

REQUIREMENTS FOR THE MINOR

A minimum of five courses is required for the minor to be selected from courses including and numbered above V 3333-V 3334.

Language Requirement

The language requirement can be fulfilled with Italian V 1101-V 1102 and V 1201-V 1202 (or their equivalents) or with Italian V 1301-V 1302 (with permission of the department), followed by a one-year course in Italian literature. Students who have taken courses in Italian elsewhere (whether in high school, in college, or both) but not at Barnard, must take the Italian placement test before registering for any Italian course. The test is given during the preregistration period.

COURSES OF INSTRUCTION

ITA V 1101x-ITA V 1102y. Elementary Full-Year Course.

Integral course for beginners with intensive oral-aural drill; reading, translation, conversation. No credit is given for V 1101 until V 1102 has been completed.—G. Simoncini and associates.

Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period.

4 points.

Sections I, II M Tu W Th 9:00.

Sections III, IV, V, VI, M Tu W Th 12:00.

ITA F 1101x-ITA F 1102y. Elementary Full-Year Course.

P. di Robilant and associate.

4 points.

Sections I, II Tu Th 6:10-8:00.

ITA F 1101y-ITA F 1102x. Elementary Full-Year Course.

J. Becker and associate.

4 points. Section I, II 1:10-2:25 M W F.

ITA W 1111x, ITA W 1112y. Elementary Conversation.

M. Bellati and instructor to be announced.

Prerequisite for W 1112: W 1111 or the equivalent, or sufficient fluency to satisfy the instructor.

2 points.

Section I Tu Th 1:10-2:25.

Section II Tu Th 4:10-5:25.

ITA V 1201x, ITA V 1202y. Intermediate Course.

Review of the essentials of grammar; intensive and extensive reading, particularly from contemporary authors; translation, composition, and practice in conversation.—M. Repetto Alaia and associates.

Prerequisite: V 1101-V 1102 or the equivalent.

Italian

Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period.

4 points.

Section I M Tu W Th 9:00.

Section II, III M Tu W Th 12:00.

ITA F 1201x, ITA F 1202y. Intermediate Course.

A. Ciccarelli.

Prerequisite: F 1101-F 1102 or the equivalent.

4 points.

M W 6:10-8:00.

ITA W 1221x, ITA W 1222y. Intermediate Conversation.

Intensive practice in the spoken language, assigned topics for class discussions, and oral reports.—M. Bellati.

Prerequisite: Italian W 1112 or sufficient fluency to satisfy the instructor.

2 points. Tu Th 4:10-5:25.

ITA V 1301x, ITA V 1302y. Comprehensive Elementary and Intermediate Course.

With permission of the departmental chairman, this course may be applied toward the fulfillment of the language requirement provided it is followed by a one-year course in Italian Literature.

Students must sign up for sections of this course in Room 610 Casa Italiana during the pre-registration period. Recommended for students who have studied other foreign languages and can acquire by intensive study the equivalent of a full year's work in elementary Italian grammar with stress on reading, writing, and conversing.

4 points.

Section I M Tu W Th 11:00-11:50. G. Simoncini.

Section II M W F 4:10-5:25. P. di Robilant.

ITA V 3335x, ITA V 3336y. Italian Written and Oral Style.

Written and oral self-expression in Italian; brief papers, translations, and oral reports on a variety of topics; grammar review.—M. Alaia.

Prerequisite: two years of college language or the equivalent.

3 points. Tu Th 4:10-5:25.

LITERATURE COURSES IN ITALIAN

For nonmajors, the literature courses listed below will count toward the distribution requirement.

ITA V 3333x, ITA V 3334y. Introduction to Italian Literature.

Introduction to literary theory and problems and to in-depth textual analysis. Authors and works from the thirteenth century to the present; the basic course in Italian literature.—V 3333: L. Rebay; V 3334: J.A. Carallo.

Prerequisite: V 1201-V 1202 or the equivalent.

3 points. M W 2:40-3:55.

H

ITA V 3449x. Modern Italian Literature.

Twentieth-century prose and poetry.

Prerequisite: V 1201-V 1202 or the equivalent.

3 points. Not offered in 1988-89.

H

ITA V 3467x. Petrarch and Petrarchism.

3 points.

ITA V 3468y. Italian Poetry from the Scuola Siciliana to the Dolce Stil Nuovo.

Development of Italian poetry from its origins to the early part of the 14th century; Guinizelli, Cavalcanti, and Dante; readings, in-depth textual analysis, and class discussions.—L. Rebay.

Prerequisite: V 1201-V 1202 or the equivalent.

3 points. M W 1:10-2:25.

H

ITA V 3641y. The Italian Theatre and Its Contributions to European Theatre.

Tragedy, comedy, commedia dell'arte and melodrama.—M. Lorch.

Prerequisite: V 1201-V 1202 or the equivalent.

Not offered in 1988-89.

3 points.

ITA V 3981x. Dante, La Divina Commedia.

The Divine Comedy, focusing on textual analysis and the appreciation of Dante's masterwork as poetic text. Readings and lectures in Italian; class discussions and written assignments in either Italian or English.—L. Rebay.

Prerequisite: Two years of Italian or the equivalent.

Not offered in 1988-89.

3 points.

H

ITA V 3993x, V 3994y. Seminar in Italian Literature.

Guidance in research and writing of a critical essay.—J. Becker, M. Lorch, O. Ragusa, L. Rebay.

Required of majors. Open to other qualified students with permission of the chairman.

3 points. Hours to be arranged.

Italian

COURSES GIVEN IN ENGLISH

Majors are required to attend an additional seminar hour conducted in Italian in those courses so indicated below.

Italian Music ITM V 3116y. Poetry and Music in the Italian Renaissance.

Focusing upon Petrarch as paradigmatic figure, a study of Renaissance poetry and its musical settings will be made against the background of Renaissance humanism. Included are poets from Dante and Petrarch to Poliziano, Ariosto, Michelangelo, and Tasso; the frottolists Cara and Tromboncino; and madrigal composers such as Verdelot, Willaert, de Rore, Marenzio, Gesualdo, and Monteverdi.—J. C. Nelson, L. Perkins.

Prerequisite: First-year Italian or the equivalent, Music Humanities or the equivalent, and permission of the instructors.

Not offered in 1988-89.

4 points.

ITA V 3196x. Petrarch and Boccaccio.

Filostrato, *Fiammetta*, the *Decameron*, and selections from other works by Boccaccio. Origins of humanism and interrelations between Dante, Boccaccio, Petrarch.—A. Cavallo.

3 points. Tu 2:10-4:00; Th 2:10-3:00 for students with a knowledge of Italian or Th 3:10-4:00 for students without knowledge of Italian.

History-Italian HII V 3197x. Dante's World.

Historical background of Dante's political, social and ethical thought and literary analysis of its poetical rendering; major theological themes in Medieval thought as a background to and influence upon the *Divine Comedy*; development of visual arts and ideas especially in the painting of Giotto. —M. Lorch, S. Wemple.

Not offered in 1988-89.

3 points.

S

ITA V 3221y. Machiavelli, Castiglione, Ariosto, Tasso.

An analysis of Machiavelli's *Prince* and *Mandragola*; Castiglione's *Book of the Courtier*; Ariosto's *Orlando Furioso* (selections), and Tasso's *Aminta* and *Gerusalemme Liberata* (selections).—M. Lorch.

3 points. M 4:10-6:00 Third hour to be arranged.

H

ITA V 3223y. Florentine Writers from Dante to Michelangelo.

Interrelations between Dante, Petrarch, and Boccaccio; Lorenzo de Medici and his circle; Machiavelli and Guicciardini; Michelangelo and Cellini.—J. C. Nelson.

Not offered in 1988-89.

3 points.

ITA V 3440y. Feminism in Italian Literature and Culture.

The development of the Feminist Movement in Italy; its origins to the present. Readings will include works by Aleramo, De Cespedes, Maraini and Vigano; historical and sociological background material.—M. Alaia.

Not offered in 1988-89.

3 points.

ITA V 3469x. Renaissance Humanism: Its Sources, Forms and Legacy.

Essential aspects of the humanistic tradition. Humanistic literature in Europe (1400-1500). Forms of humanistic literature, the humanists' concern with Christianity as religion. Humanism and education, politics and visual arts.—M. Lorch.

3 points. M 4:10-6:00. Third hour to be arranged.

H

ITA V 3642y. Studies in Contemporary Italian Arts: Italian Film.

Historical, social, and stylistic analysis within the context of neo-realism—its antecedents and influence on contemporary cinema. Development of the Italian film industry vis-à-vis politics and society. Films by De Sica, Rossellini, Germi, Castellani, Fellini, as well as historical and contemporary works, will be screened.—J. Becker.

3 points. Tu Th 4:10-6:00.

\$30 fee to be paid in class.

GRADUATE COURSES OPEN TO QUALIFIED UNDERGRADUATES

ITA G 4052y. Italian Literature in the Second Half of the Nineteenth Century.

The background of twentieth-century developments. Selected problems and writers.—O. Ragusa.

Open to qualified undergraduates with the permission of the instructor.

3 points. Th 4:10-6:00.

Italian

ITA G 4053x - G 4054y. Contemporary Italian Literature

(in Italian).

From D'Annunzio and Svevo to the poets and novelists of our day.—L. Rebay.

Open to qualified undergraduates with the permission of the instructor.

3 points. Tu 2:10-4:00.

H

ITA G 4075x - G 4076y. Dante.

A reading of the *Divine Comedy* in the light of its philosophical and historical background.

—M. Lorch.

Open to qualified undergraduates with the permission of the instructor.

3 points. W 4:10-6:00.

H



Linguistics

Office: 329 Milbank Hall

Telephone: 280-5403, 5590

Professor

Joseph L. Malone (Chairman)

Other Barnard Officers offering courses listed below:

Professor

Sue Howard Larson (Philosophy)

Associate Professor

Robert Remez (Psychology)

Assistant Professors

Valentin Soto Borges (Spanish), Jan Rabinowitz (Psychology)

Associate

Elizabeth Caughran (English)

Other officers of the University offering courses listed below:

Professors

Robert Austerlitz, William Diver, Marvin Herzog, Charles D. Parsons (Philosophy), Harvey Pitkin (Anthropology)

Assistant Professors

Gail Kaiser (Computer Science), Shaughan Lavine (Philosophy), Kathleen McKeown (Computer Science), Mark J. Petrini (Classics)

REQUIREMENTS FOR THE MAJOR

Students interested in majoring in this discipline may, upon consultation with the Departmental Chairman or his designated representative, petition the Committee on Programs and Academic Standing for a special major in Linguistics (see page 33).

REQUIREMENTS FOR THE MINOR

Students minoring in Linguistics must take five courses in the department, including V 1101.

COURSES OF INSTRUCTION

LIN V 1101x. Introduction to Linguistics.

Nature of language; characteristics of phonological and grammatical systems and the lexicon; evolution of language; role of linguistics in related disciplines; modern techniques of linguistic analysis.—J. Malone.

Enrollment limited to ca. 100 students per section. Advance sign-up required.

3 points.

x: Section I Tu Th 9:10-10:25.

S

LIN V 3410y. The Science of Linguistics and the Art of Translation.

Linguistic patterns and the application of linguistic techniques in both the process of translation and the comparison of original and translated versions of a text. Texts include literary, Biblical, and journalistic material in bi- or multilingual versions, and students will

use materials in languages familiar to them for analysis and translation.—J. Malone.

Prerequisite: V 1101 or permission of the instructor.

Enrollment limited to 25 students. Advance sign-up required. Offered in rotation with V 3412 and 3414.

3 points. Tu Th 9:10-10:25.

LIN V 3412y. Linguistics and the Translation of Poetic Language.

Linguistics as a tool in the translation of poems and other kinds of texts whose structure depends on phonetic and phonological patterns. Recent developments in linguistics (e.g. by Paul Kiparsky) relevant to the analysis of rhyme, meter, parallelism, and other sound-based configurations. Materials include monolingual and bilingual texts (poems, proverbs, etc., in several languages), some chosen by

Linguistics

the instructor and others by the students.—J. Malone.

Prerequisite: V 1101 or permission of the instructor.

Enrollment is limited to 25 students. Advance sign-up required. Offered in rotation with V 3410 and V 3414.

3 points. Not offered in 1988-89. S

LIN V 3414y. Linguistics and the Structure of Texts.

Application of linguistics techniques for elucidation of meaning and structure in various types of texts, especially poetry and prose. Modern techniques and traditional methods. Text used for illustration and analysis will be in various languages.—J. Malone.

Prerequisite: V 1101 or permission of the instructor.

Enrollment is limited to 25 students. Advance sign-up required, offered in rotation with V 3410 and V 3412.

3 points. Not offered in 1988-89.

LIN V 3901y. Seminar in Linguistics.

Supervised research in the student's area of specialization, preparation of a research paper.—J. Malone.

Prerequisite: V 1101.

3 points. Tu Th 1:10-2:25.

LIN W 4108y. Principles of Historical Linguistics.

Principles of historical and comparative linguistics.—J. Malone.

Prerequisite: V 1101.

Tu Th 10:35-11:50.

3 points.

LIN W 4204x. Introduction to Phonology.

Basic concepts and issues in phonological theory; development of the phonemic and morphophonemic levels of representation.—J. Malone.

Prerequisite: V 1101.

3 points. Tu Th 10:35-11:50.

LIN W 4600y. Transformational Grammar.

Development of contemporary thought in theoretical linguistics, focusing on syntactic analysis. Topics include the Standard and Extended Theories, Government-binding framework.—Instructor to be announced.

Prerequisite: V 1101.

3 points. Tu Th 1:10-2:25.

LIN W 4602x. Issues in Semantics.

Determination of meaning by properties of grammatical form. Issues to be discussed include relation of syntactic and argument structure, anaphora, scope of quantification.—Instructor to be announced.

Prerequisite: V 1101.

3 points. Hours to be arranged.

LIN G 4201x. Phonetics.

R. Austerlitz.

3 points. M W 11:00-12:00.

LIN G 4805x-LIN G 4806y. General Linguistics.

W. Diver.

3 points each semester. Hours to be arranged.

Literature G 4006x. Linguistics in the Service of Literature.

R. Austerlitz.

3 points. M W 10:00-11:00.

Anthropology ANT V 3033y. Sociolinguistics.

A. Galin.

3 points. M W 5:40-6:55.

Anthropology ANT V 3034x. Ethnolinguistics.

A. Galin.

3 points. M W 5:40-6:55.

Anthropology ANT G 4213y. Methods of Sociolinguistic Analysis.

A. Galin.

3 points. Tu 6:10-8:00.

Anthropology ANT G 4322x. Synchronic Linguistics.

H. Pitkin.

3 points. Th 2:00-4:00.

Anthropology ANT G 4326y. Methods of Ethnolinguistic Analysis.

A. Galin.

3 points. Tu 6:10-8:00.

LIN W 4801. Language as Communication: Synchrony.

W. Diver.

3 points. Hours to be arranged.

LIN W 4802. Language as Communication: Diachrony.

W. Diver.

3 points. Hours to be arranged.

ANT G 4511x. Ethnographic Text Analysis.

H. Pitkin.

3 points. Th 4:00-6:00.

ANT G 4324y. Diachronic Linguistics.

H. Pitkin.

3 points. Th 4:00-6:00.

Linguistics

ANT G 4318y. The Semantics of Grammatical Categories.

H. Pitkin.

3 points. Tu 4:10-6:00.

CSG W 4115x. Programming Languages and Translators, I.

G. Kaiser.

3 points. Hours to be arranged.

CSG W 4705y. Natural Language Processing.

K. McKeown.

3 points. Hours to be arranged.

CSG G 4801x. Mathematical Logic.

Instructor to be announced.

3 points. Hours to be arranged.

LAT V 3012x. Lyric Poetry.

P. Knox.

3 points. Tu Th 2:40-3:55.

PHI F 3410y. Formal Logic.

Instructor to be announced.

3 points. M W 6:10-7:25.

PHI V 3411x. Formal Logic A.

C. Parsons.

3 points. Tu Th 10:35-11:50.

PHI V 3415y. Formal Logic B.

S. Lavine.

3 points. Tu Th 9:10-10:25.

PHI V 3483y. Theory of Meaning.

S. Larson.

3 points. Tu Th 2:40-3:55.

PSY BC 3160x. Cognitive Psychology.

J. Rabinowitz.

3 points. Tu Th 2:40-3:55.

PSY BC 3164y. Perception and Language.

R. Remez.

3 points. Hours to be arranged.

PSY W 4132y. Production and Perception of Language.

R. Remez.

3 points. Not offered in 1988-89.

SPA BC 3006x. Problems of Spanish Grammar.

V. Soto Borges.

3 points. Tu 1:10-3:55.



Mathematics

Office: 404 Mathematics Building

Telephone: 280-5331

Professor

Joan S. Birman

Associate Professor

Ted Chinburg (Chairman)

Assistant Professor

George Zettler

Other officers of the University offering courses in Mathematics:

Professors

Hyman Bass, F. Thomas Farrell, Patrick X. Gallagher, Dorian Goldfeld, Herve M. Jacquet, Troels Jorgensen, Masatake Kuranishi, Boris G. Moishezon, John W. Morgan, Duong Hong Phong, Henry Pinkham, Karl Rubin.

Associate Professors

Robert Friedman, Ngaiming Mok

J. F. Ritt Assistant Professors

David A. Bayer,¹ Huai-Dong Cao, Isaac Efrat, Sidney Frankel, Joseph N. Gregg, Michael Heumos, Craig Hodgson, Thongchai Kengmana, Franz Maier, Kiernan O'Grady, Thea Pignatoro, David Rana, Frank Rimlinger, Johan Tysk.

¹Absent on leave, 1988-89.

The Mathematics Department offers a wide range of courses, which fall into four groups: courses for students who lack a firm grasp of basics in mathematics, service courses for students who need to learn the tools of mathematics for applications to other areas, courses in the majors' program in pure mathematics (including a regular track and an honors track), and courses in the majors' program in applied mathematics.

Students interested in Computer Science should consult the program listing of that department, page 103.

General Information

The pre-calculus offering is W 1003, *College Algebra and Analytic Geometry*.

The systematic study of college mathematics begins with one of the following three alternative four-term sequences: Calculus IA, IIA, IIIA, IVA (Mathematics V 1101, V 1102, V 1201, V 1202); Calculus IB, IIB, IIIB, IVB (Mathematics V 1103, V 1104, V 1203, V 1204); Honors Mathematics I, II, III, IV (Mathematics V 1107, V 1108, V 1207, V 1208). The A-sequence is a standard course in differential and integral calculus, intended primarily for students who need calculus for its applications. The B-sequence covers substantially the same material as A, but places more stress on theoretical foundations and moves at a more rapid pace.

The four-term Honors Mathematics sequence is designed for students with strong mathematical talent and motivation. Included in the course is the material of the calculus sequences, so it does not presume high school calculus. However, it is a much more general introduction to mathematical methods and thought, including topics that are applicable in a wide variety of fields. It will not be repetitious for students who have had high school calculus. Classes are typically small and congenial. This is the most attractive and efficacious course available to mathematically talented freshmen, whether or not they intend to be mathematics majors. Students who contemplate taking Honors Mathematics should consult with the instructor. If this is not possible ahead of time, they should register and attend the first class. Transfer to a calculus course, if appropriate, can be easily arranged. Mathematics majors are required to take the B or Honors levels.

A fourth sequence on the first year level, *Calculus for Economics I, II*, is designed for prospective economics majors.

Mathematics

Mathematics V 1220, *Theory of Equations with Applications*, is a possible alternative to Calculus IV for non-mathematics majors, or supplement to Calculus IV for mathematics majors in the second year of study. It is recommended for students who are interested in computer science.

Placement in the proper term (I, II, III) and level (A, B, Honors) is guided by the following criteria. Students who have studied calculus in high school and have passed the Advanced Placement Test (AB level) with a grade of 4 or 5 are awarded 3 points credit and may begin with Calculus IIA or IIB, or Honors Math I. Those who have received a grade of 3 will be awarded 3 points credit only if they begin with and pass IIA or IIB, or Honors Math I. Students who have studied calculus in high school and have passed the Advanced Placement Test (BC level) with a grade of 4 or 5 are awarded 6 points credit and may begin with IIIA or IIIB (Section II, for freshmen only), or Honors Math I. Those who have received a grade of 3 will be awarded 6 points credit only if they begin with and pass IIIA, IIIB, or Honors Math I-II and will be awarded 3 points credit if, instead, they begin with and pass IIA or IIB. Students cannot receive both AP credit (3 points) and credit for Calculus IA or IB, or both AP credit (6 points) and credit for Calculus IA, IIA, or IB, IIB.

CEEB-Placement exam policies: Students who receive scores under 550 in the CEEB Mathematics Achievement Test, Level I or II, are required to take the departmental placement exam before they may be admitted to any of the department's offerings. Students who do not pass this examination must take W 1003 in order to be allowed to register for Calculus. The placement exam is administered during the Autumn and Spring registration periods.

Students who have special placement problems should go to Room 404 Altschul to arrange an appointment with a faculty member or the Chairman, either during Freshman Week or during the semester.

Two help rooms, one in Mathematics and one in Altschul, will be open all term during the day, Monday through Friday, for students seeking individual help and counseling from the instructors and teaching assistants.

REQUIREMENTS FOR THE MAJOR

In the second half of the sophomore year or earlier, prospective majors should register with the chairman or with the administrative assistant (404 Mathematics) to be assigned to a departmental adviser. The major programs in both pure and applied mathematics are appropriate for students who plan to continue their training in graduate school.

Forty-two points are required for the major in mathematics, distributed as follows according to two tracks:

Both Tracks:

Math V 1103-V 1104 and
V 1203-V 1204

Calculus IB-IVB (12 pts)

or

Math V 1107-V 1108 and
V 1207-V 1208

Honors Math (12 pts)

Applied Mathematics:

Math V 3202

Linear Algebra (3 pts)

Math W 4061

Modern Analysis (3 pts)

Eng Math E 4901-E 4902

Junior Seminar (no credit)

Eng Math E 4903-E 4904

Senior Seminar (6 pts)

Electives (totaling 18 points) selected from the following list:

Math V 3030

Dynamical Systems (3 pts)

Math V 3027

Ordinary Differential Equations (3 pts)

Math V 3028

Partial Differential Equations (3 pts)

Math V 3007

Complex Variables (3 pts)

Math V 4032

Fourier Analysis (3 pts)

Mathematics

Math V 4033
Eng. Math E 4300
Stat IEOR W 3611-W 3612
Stat IEOR W 3658
Other (with the approval of the Applied Math Committee)

Calculus of Variations (3 pts)
Numerical Methods (3 pts)
Probability and Statistical Inference (6 pts)
Probability (3 pts)

Note: Students cannot elect both *Probability* and *Probability and Statistical Inference*

Pure Mathematics:

Math W 4061-W 4062
Math V 3040-V 3041
Math V 3951 or V 3942

Modern Analysis (6 pts)
Modern Algebra (6 pts)
Undergraduate Seminar in Mathematics (3 pts)

Electives (totaling 15 points) in a combination of Mathematics courses above 2000 and cognate courses, to be approved by the adviser.

REQUIREMENTS FOR THE MINOR

Six courses are required for the minor, consisting of courses numbered 1200 or above from the departmental offerings, subject to the approval of the chairman.

COURSES OF INSTRUCTION

MAT W 1003x, MAT W 1003y. College Algebra and Analytic Geometry

For students who do not have a firm enough grasp of basic mathematics to begin the study of calculus. Topics include: linear functions, introduction to the exponential and logarithm functions and to algebraic functions, trigonometry, vectors in the plane. — Staff.
3 points.

x: Section 1 M W F 1:10-2:15.
Section 2 Tu Th 9:00-10:55.
Section 3 Tu Th 6:10-8:05.
Section 4 M W 7:10-9:05.

y: Hours to be arranged.

MAT V 1007x, MAT V 1007y. Applied Linear Algebra.

Topics, especially suitable for the social sciences, include: linear and quadratic equations, systems of linear equations, matrices, linear programming, the simplex method, difference equations, applications to economics and finance.—Instructor to be announced.
Prerequisite: High school algebra.

3 points.
x: Tu Th 4:10-5:25.
y: Tu Th 2:40-3:55.

MAT C 1010y. Groups and symmetry.

An elementary introduction to the concept of a group. Groups of symmetries in art, architecture, and science. Groups of permutations. — Instructor to be announced.
Prerequisite: Intermediate algebra and trigonometry.
3 points. Tu Th 2:40-3:55.

MAT V 1101x, MAT V 1101y. Calculus IA.

Functions, limits, derivatives; introduction to integrals.—Staff.

Prerequisite: a firm grasp of high school mathematics through trigonometry, or Mathematics W 1003 or the equivalent. The Help Room on the 4th Floor of Altschul Hall is open during the day, Monday through Thursday, to students seeking individual help from the instructors and teaching assistants.

3 points.
x: Secs 1, 2, 3, 4: M W F 10:00-10:50.
Secs 5, 6, 7: M W F 11:00-11:50.
Secs 8, 9: M W 1:10-2:25.
Sec 10: Tu Th 6:10-7:25 evening.

y: Sec 1: M W F 10:00-10:50.
Sec 2: M W F 11:00-11:50.
Sec 3: M W 4:10-5:25.
Sec 4: Tu Th 6:10-7:25 evening.

Recit: one hour chosen by the student during the first week of classes from a fixed schedule.

MAT V 1102x, MAT V 1102y. Calculus IIA.

Methods of integration; applications of the integral: Taylor's Theorem; infinite series.—Staff.

Prerequisite: Course V 1101 or the equivalent.
3 points.

x: Sec 1: M W F 10:00-10:50.
Sec. 2: M W F 10:00-10:50.
Sec 3: M W F 11:00-11:50.
Sec 4: M W F 11:00-11:50.
Sec 5: Tu Th 6:10-7:25 evening.
y: Secs 1, 2, 3: M W F 10:00-10:50.
Secs 4, 5: M W F 11:00-11:50.
Secs 6, 7: M W 1:10-2:25.

Mathematics

Sec 8: Tu Th 6:10-7:25 evening.

Recit: one hour chosen by the student during the first week of classes from a fixed schedule.

MAT V 1103x, MAT V 1103y. Calculus IB.

Same topics as Calculus IA, with greater emphasis on underlying theory.—Instructor to be announced.

3 points.

Section 1 M W F 10:00-10:50.

Section 2 M W F 11:00-11:50.

MAT V 1104x, MAT V 1104y. Calculus IIB.

Same topics as Calculus IIA, with greater emphasis on underlying theory.—Instructor to be announced.

Prerequisite: Course V 1103 or the equivalent.

3 points.

x: M W F 11:00-11:50.

y: Section 1: M W F 10:00-10:50.

Section 2: M W F 11:00-11:50.

MAT V 1107x, MAT V 1108y. Honors Mathematics I-II.

For further information see the discussion under "General Information," page XXX—Instructor to be announced.

3 points M W F 11:00-11:50.

MAT V 1111x, MAT V 1112y. Calculus for Economics. 1 and 2.

The level of this course is the same as that of Mathematics V 1101, V 1102, but the syllabus is modified to meet the special needs of economics students. x: Derivatives, transcendental functions, curve-sketching, optimization problems in one variable, integrals; y: Partial derivatives, notions from linear algebra implicit functions, optimization problems in several variables, complex numbers, linear differential and difference equations with constant coefficients.—Instructors to be announced.

Prerequisite: Same as for V 1101-V 1102.

3 points.

Section 1 M W F 10:00-10:50.

Section 2 M W F 11:00-11:50.

MAT V 1201x, MAT V 1201y. Calculus IIIA.

Vectors in dimensions 2 and 3; vector valued functions and their derivatives; curves. Functions of several variables; partial derivatives; gradients; surfaces; extrema; double and triple integrals.—Instructors to be announced.

Prerequisite: Course V 1102 or the equivalent.

3 points.

x: Sections 1, 2, 3: Tu Th 10:35-11:50.

Sections 4, 5: Tu Th 1:10-2:25.

y: Section 1: M W F 10:00-10:50.

Section 2: Tu Th 6:10-7:25 evening.

MAT V 1202x, MAT V 1202y. Calculus IVA. Vectors in higher dimensions; matrices; applications to calculus. Vector analysis. Introduction to Fourier series.—Instructors to be announced.

Prerequisite: Course V 1201 or the equivalent.

3 points.

x: Tu Th 6:10-7:25 evening.

y: Sections 1, 2, 3: Tu Th 10:35-11:50.

Sections 4, 5: Tu Th 1:10-2:25.

MAT 1203x, MAT V 1203y. Calculus IIIB.

Same topics as Course V 1201, with greater emphasis on underlying theory.—Instructors to be announced.

Prerequisite: For Sections I x or y, Course V 1104.

For Section II x, see statement under "General Information."

3 points.

x: Sec 1: M W F 11:00-11:50.

Sec 2: (freshman only): Tu Th 10:35-11:50.

y: M W F 11:00-11:50.

Recit: Sec 1 (x): M or W, 8 or 12, Sec 2 (x): Tu or Th, 8 or 12, (y): Tu or Th, 8 or 12.

MAT V 1204x, MAT V 1204y. Calculus IVB.

Same topics as Course V 1202, with greater emphasis on underlying theory.—Instructors to be announced.

Prerequisite: Course V 1203.

3 points.

x: M W F 11:00-11:50.

y: Section 1: M W F 11:00-11:50.

Section 2: Tu Th 10:35-11:50 (freshmen only).

MAT V 1207x, MAT V 1208y.

Honors Mathematics III, IV.

Instructor to be announced.

Prerequisite: Course V 1107-V 1108. Course V 1207 is the prerequisite for V 1208.

3 points. Tu Th 10:35-11:50.

MAT V 1220y. Theory of Equations with Applications.

Topics in abstract algebra extensively used in science and engineering; basic notions of set theory; induction; groups, rings, fields; rings of integers and of polynomials; finite abelian groups; finite rings and fields; elementary combinatorics; difference equations.—Instructor to be announced.

Prerequisite: One year of calculus.

3 points. Tu Th 10:35-11:50.

MAT V 3007y. Complex Variables.

Elementary course in functions of a complex variable; fundamental properties of the complex numbers; differentiability. Cauchy-Riemann equations; Cauchy integral theorem,

Mathematics

Taylor and Laurent series, poles and essential singularities; residue theorem and conformal mapping.—Instructor to be announced.

Prerequisite: Calculus IV.

3 points. Tu Th 2:40-3:55.

MAT V 3010x. Fundamental Concepts of Mathematics.

Not offered in 1988-89.

3 points.

MAT V 3020x. Elementary Number Theory. Congruences. Primitive roots. Quadratic residues. Contemporary applications.—Instructor to be announced.

Prerequisite: one year of calculus.

3 points. M W 1:10-2:25.

MAT V 3021y. Combinatorial Number Theory.

Advanced topics in number theory. Continued fractions. Approximations by rational numbers. Transcendental numbers. Arithmetic functions. Partitions of numbers and their generating functions. Stress on the combinatorial and algorithmic aspects of number theory. Contemporary applications.—Instructor to be announced.

Prerequisite: MAT V 3020 or MAT V 3040.

3 points. M W 1:10-2:25.

MAT V 3027x. Ordinary Differential Equations. Equations of order one: linear equations series solutions at regular and singular points. boundary value problems; selected applications.—Instructor to be announced.

Prerequisite: Calculus III or the equivalent.

3 points. Tu Th 6:10-7:25.

MAT V 3028y. Partial Differential Equations.

Introduction to partial differential equations; first order equations; linear second-order equations; separation of variables, solution by series expansions; boundary value problems.—Instructor to be announced.

Prerequisite: Course V 3027 or the equivalent.

3 points. Tu Th 6:10-7:25.

MAT V 3030y. Dynamical Systems.

Systems, in particular, linear systems of differential equations; qualitative study of the solutions. Applications to population biology, economics, physics, and chemistry, as selected by the instructor.—Instructor to be announced.

Prerequisite: MAT V 3202 and MAT W 4061.

3 points. Tu Th 9:10-10:25.

MAT W 4032x. Fourier Analysis.

Fourier series and integrals, discrete analogues, inversion and Poisson summation

formulae, convolution, Heisenberg uncertainty principle. The course will stress the application of Fourier Analysis to a wide range of disciplines.—Instructor to be announced.

Prerequisite: Three terms of calculus and linear algebra or four terms of calculus.

3 points. Tu Th 2:40-3:55.

MAT W 4033y. Calculus of Variations.

Euler-Lagrange equations, symmetry and conservation laws, Noether's theorem, Legendre transform. Other topics chosen by the instructor. The course will stress the application of calculus of variations to a wide range of disciplines.—Instructor to be announced.

Prerequisite: Three terms of calculus and linear algebra or four terms of calculus.

3 points. Tu Th 2:40-3:55.

MAT V 3040x, MAT V 3041y. Introduction to Modern Algebra.

The second term of this course may not be taken without the first. Groups, homomorphisms, ring ideals, fields, polynomials, and field extensions. Galois theory.—Instructor to be announced.

Prerequisite: MAT V 1202 or equivalent.

3 points. M W 2:40-3:55.

MAT V 3202x, MAT V 3202y. Linear Algebra.

Vector spaces, linear transformations, matrices, quadratic and hermitian forms, reduction to canonical forms.—Instructor to be announced.

Prerequisite: Mat V 1201 or the equivalent.

3 points.

x: M W 2:40-3:55.

y: M W F 9:00-9:50.

MAT V 3375y. Geometric Topology.

The fundamental group of a topological space; Seifert-Van Kampen Theorem, covering spaces, classification of 2-manifolds, simplicial homology.—Instructor to be announced.

Prerequisites: Courses V 3040 and W 4061 or their equivalents. This course is intended primarily for mathematics majors.

MAT V 3386x. Differential Geometry.

Local and global differential geometry of submanifolds of Euclidean 3-space; Frenet formulas for curves; various types of curvatures for curves and surfaces and their relations; Gauss-Bonnet theorem.—Instructor to be announced.

Prerequisite: Calculus IV or the equivalent.

Primarily for mathematics majors.

3 points. M W 1:10-2:25.

Mathematics

MAT V 3901x, MAT V 3902y. Supervised Readings in Mathematics.

Guided reading and study in mathematics. A student who wishes to undertake individual study under this program must present a specific project to a member of the staff and secure his or her willingness to act as sponsor. Sponsorship is limited to full-time instructors on the staff list. Written reports and periodic conferences will be required.—Staff.

Permission of the chairman and of the staff member who agrees to act as sponsor are required.

2 or 3 points. Hours to be arranged.

MAT V 3951x, MAT V 3952y.

Undergraduate Seminars in Mathematics.

Subject matter announced at the start of registration and is different in each section. Each student prepares talks, to be given to the seminar, under the supervision of a faculty member or senior teaching fellow.—Instructors to be announced.

Prerequisite: Two years of calculus and at least one year of additional mathematics courses, and the permission of the department chairman.

3 points.

Consult 4th floor bulletin board, Mathematics Building, for organizational meeting date and time, during registration period.

MAT W 4061x, MAT W 4062y. Introduction to Modern Analysis.

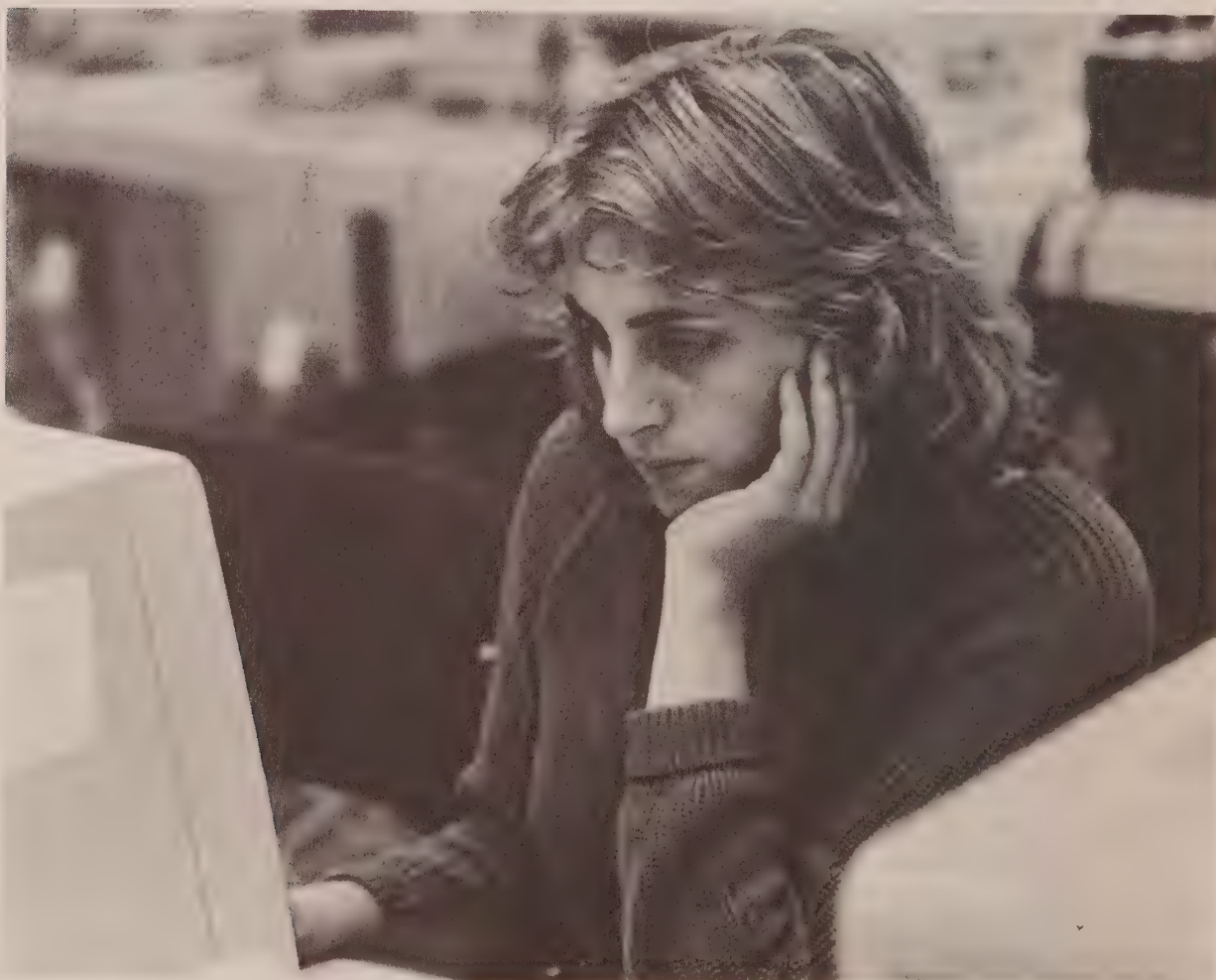
The second term of this course may not be taken without the first. Real numbers, metric spaces, elements of general topology. Continuous and differentiable functions. Implicit functions. Integration; change of variables. Function spaces. Further topics chosen by the instructor.—Instructor to be announced.

Prerequisite: MAT V1202 or the equivalent.

3 points. Tu Th 4:10-5:25.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the major adviser. These courses are described in the Bulletin of the Graduate School of Arts and Sciences.



Medieval and Renaissance Studies

Office: 206 Milbank Hall

Telephone: 280-5418, 5417

This program is supervised by the Committee on Medieval and Renaissance Studies:

Associate Professor of Classics

Lydia Lenaghan

Professor of Italian

Maristella Lorch (Chairman)

Professors of English

Ruth Kivette, Anne Prescott

Assistant Professor of English

Christopher Baswell

Professor of History

Suzanne Wemple (Adviser)

Professor of Music

Hubert Doris

Professor of Spanish

Marcia Welles

Lecturer in Spanish

Helene de Aguilar

Associate Professor of Art History

Jane Rosenthal

Assistant Professor in French

Anne Berthelot

Lecturer in German

Regina Ayre

This program enables undergraduates to acquire a thorough knowledge of the most important aspects of the Medieval and Renaissance civilizations, and to gain an awareness of the interdependence of historical and cultural developments.

REQUIREMENTS FOR THE MAJOR

Major programs are established individually with a concentration in one of the disciplines: art history, history, one of the literatures, philosophy, romance philology, music, or religion. A sequence of five course to be taken in the field of concentration has been developed by the relevant department.

A minimum of twelve courses is required for the major in Medieval and Renaissance Studies, distributed as follows:

- 5 courses in the area of concentration;
- 2 history courses;
- 3 Medieval and Renaissance Studies courses;
- 2 electives to be chosen in consultation with the adviser.

Students are required to write a senior essay, either in a Medieval and Renaissance Studies course or in a senior level seminar in the discipline of their concentration.

Medieval and Renaissance Studies

Language Requirements

Medieval Studies. A reading knowledge of one Romance or Germanic language is required. In special cases students may petition for another language. Students are expected to acquire a reading knowledge of Medieval Latin before graduation. (See Latin BC 3033, *Medieval Literature*.)

Renaissance Studies. A reading knowledge of two languages, preferably Latin and Italian, must be acquired before graduation.

Mimeographed lists of concentration courses are available from the Program Adviser, 413 Lehman Hall.

REQUIREMENTS FOR THE MINOR

There is no minor in Medieval and Renaissance Studies

COURSES OF INSTRUCTION

History-Italian HII V 3197x. Dante's World. Historical background of Dante's political, social, and ethical thought, and literary analysis of its poetical rendering.—M. Lorch and S. Wemple.

Not offered in 1988-89.

3 points.

MRS BC 3080x. The Court of Charlemagne and Este: Myth and History.

Exploration through history and fiction of the origins and dimensions of the court of Paris and of Este in Ferrara and the birth and development of Renaissance theatre, chivalric and epic poetry.—M. Lorch and G. Arnaldi.

Not offered in 1988-89.

4 points.

H

Italian-Music ITM V 3034y. Italian Renaissance: Courts and the Theatre.

Relation of the textual to the dramatic, musical, choreographic, and visual elements, and the social nature of the encounter between the public and the actors and performers.—H. Doris and M. Lorch.

Not offered in 1988-89.

3 points.

MRS BC 3086x. Women in the Middle Ages: Ideals and Reality.

Position of women in the medieval social structure and as reflected in the image of women in literature and art. Women's contributions to art and literature and some common medieval stereotypes examined on the basis of primary evidence, letters, manuals, documents, literary texts, and works of art.—J. Rosenthal and S. Wemple.

Not offered in 1988-89.

4 points.

H

MRS BC 3087y. Spain of the Hapsburgs: A Culture in Crisis.

A survey of the crises that beset Spain during the course of the sixteenth and seventeenth centuries, with particular attention to the cultural impact of the Protestant Reformation. The focus is on the role of art and literature in the formation of and expression of the national ideology. Readings will include the *Lazarillo de Tormes*, selected writings of St. John of the Cross, Saint Teresa of Avila, Cervantes, Lope, Mateo Alemán, Quevedo, Cóngora, Calderón.—M. Welles.

Not offered in 1988-89.

3 points.

MRS BC 3090y. Senior Seminar.

Texts central to the continuity and reappraisal of medieval and Renaissance traditions. Readings linked to the student's experience in various fields provide a context for the preparation of a senior thesis.—Members of the Committee.

4 points. Hours to be arranged.

MRS BC 3191x,y. The Medieval and Renaissance Conference.

Visiting faculty and topics to be announced. *Enrollment limited to 20.*

1 point.

Italian ITA V 3469 x. Renaissance Humanism: Its Sources, Forms and Legacy. Advanced Seminar.

Humanistic literature in Europe (1400-1500); forms of humanistic literature, the humanist concern with Christianity as religion; humanism and education, politics and the visual arts.—M. Lorch.

3 points. M4:10-6:00. 3rd hour to be arranged. H

Medieval and Renaissance Studies

OTHER MEDIEVAL AND RENAISSANCE STUDIES COURSES

Art History ARH BC 3351x. Early Christian and Early Medieval Art.

The origins of Christian art and architecture before Constantine and the subsequent development of architecture, sculpture, and painting under the patronage of church and state in Western Europe from the 4th through the 11th century.—J. Rosenthal

3 points. *M W 2:40-3:55.* H

Art History ARH BC 3352y. Art of the Later Middle Ages.

Architecture, sculpture, and painting in the Romanesque and Gothic periods, with emphasis on the French contributions.—S. Murray.

3 points. *M W 2:40-3:55.* H

Art History ARH W 3400x. Italian Renaissance Painting.

The work of the major masters who flourished in the 15th and early 16th century with special emphasis given to Masaccio, Piero della Francesca, Leonardo Da Vinci, Giovanni Bellini, Giorgione, Titian, and Michelangelo.—J. Beck.

3 points. *M W 4:10-5:25.* H

Art History ARH V 3420y. Italian Sculpture During the Renaissance.

Survey of developments from the 13th to the 16th century with special emphasis given to the art of Nicola Pisano, Giovanni Pisano, Quercia, Donatello, and Michelangelo.—J. Beck.

3 points. *Not offered in 1988-89.* H

Art History ARH V 3437x.

Italian Renaissance Painting II: The Sixteenth Century.

The styles and significance of painting in Italy, with discussion of the concepts of High Renaissance and Mannerism. Emphasis on major figures.—D. Rosand.

3 points. *Not offered in 1988-89.* H

Art History ARH V 3475x.

Northern Renaissance Painting.

Fifteenth and sixteenth century paintings in the north of Europe with particular attention to Flanders and Holland. The development of realism and style in the light of their relation to social change and general ideas of the period. With emphasis on the works of Jan van Eyck, Pieter Brueghel, Roger van der Weyden, Albrecht Dürer, and Matthias Grünewald.—To be announced.

3 points. *W F 11:00-12:15.* H

Art History ARH BC 3953y. The Art of Medieval Manuscript Illumination.

Principal forms of decoration and illustration in medieval manuscripts, including examination of original works in collections in New York City.—J. Rosenthal.

4 points. *Not offered in 1988-89.* H

Art History ARH H 4313y. English Art in the 12th Century.

Romanesque art in England with emphasis on painting, sculpture and the literary arts. Courses open to graduate and undergraduate students with an extra hour for undergraduates.—J. Rosenthal.

Not offered in 1988-89.

3 points.

Art History ARH W 4315y. The Making of Medieval Art: 650-900.

The development of medieval art in the Germanic kingdoms of Western Europe from mid-7th century to the end of the Carolingian empire.—J. Rosenthal.

3 points. *W 4:10-6:00.*

ARH W 4358x. Art and Architecture of Medieval Spain.

The principal monuments of Christian and Islamic artistic traditions on the Iberian peninsula from the 6th to the 12th centuries. Emphasis on architecture and architectural decoration, with some discussion of manuscripts and wall painting. Attention will be given to the political, social, and cultural context of the works studied.—J. Dodds.

3 points. *Tu 6:10-8:00.*

Comparative Literature-Italian CPI G 4786y. Studies in the Italian Renaissance Theatre.

Italian Renaissance Comedy from the humanistic comedy to the *commedia dell'arte* and late 16th century comedy.—M. Lorch.

3 points. *Not offered in 1988-89.*

Comparative Literature-Italian CPI G 6081x. Theory and Mimesis of Love in Italian Literature, 1250-1625.

A reading knowledge of Italian is recommended but not required. The poetry and prose of love in the *stile nuovo*, Petrarch, Boccaccio's minor works, Lorenzo's circle, Ficino and the neo-Platonists, Ariosto and Tasso. Italian influences on Chaucer and Spenser.—J. Nelson.

3 points. *Not offered in 1988-89.*

Medieval and Renaissance Studies

Latin LAT BC 3033y. Medieval Literature.

Survey of representative late Latin and medieval texts; readings from the Vulgate, the Church Fathers, sacred and secular lyric, history, romance, satire, and biography; practice in paleography.—J. Magee.

Prerequisite: Three semesters of college Latin or permission of the instructor.

3 points. M W 2:40-3:55.

Latin LAT W 4152x. Medieval Latin Literature.

Readings from Latin authors of the late classical period and the early Middle Ages.—J. Magee.

Prerequisite: Course V3012 or the equivalent.

3 points. M W 1:10-2:25. H

English ENG BC 3154x. The Early Chaucer.

Book of the Duchess, Hous of Fame, Legend of Good Women, and Parlement of Foules, with emphasis on *Troilus and Criseyde*; related texts by other writers.—T. Szell.

3 points. Alternate years. Offered in 1889-90.

English ENG BC 3155x. Chaucer.

The Canterbury Tales.—C. Baswell.

3 points. M W 10:00-10:50 (3rd hour to be arranged).

English ENG BC 3158y. Medieval Literature.

English and Continental literary works from the fourth to the fifteenth century, studied in the original or in translation.

3 points. Alternate years. Offered in 1889-90. H

English ENG BC 3163x, ENG BC 3164y. Shakespeare.

A critical and historical introduction to the comedies, histories, and tragedies of Shakespeare.—R. Patterson.

3 points. M W 11:00-12:15. H

English ENG BC 3165x. The Elizabethan Renaissance.

Continuities, recoveries, and innovations from Skelton and More to Sidney and Spenser, Humanism, the Reformation, Neoplatonism, courtly and popular wit.—E. Ryding.

3 points. M W 1:10-2:25. H

English ENG BC 3166x. Seventeenth Century Prose and Poetry.

Classical traditions, Christian beliefs, the new science and the literary imagination; thought and style in English literature from Bacon, Donne, and Jonson to Marvell, Bunyan, and Dryden.—R. Kivette.

3 points. Alternate years. Offered in 1989-90.

English ENG BC 3176y. Milton.

Close reading and critical study of *Paradise Lost*, *Paradise Regained* and *Samson Agonistes*, with some attention to minor poems and prose.—R. Kivette.

3 points. Not offered in 1988-89.

English ENG BC 3169y. English Drama: 900-1642.

English drama from its beginnings to the closings of the theatres. Medieval plays, the Tudor interlude, and major plays of the English Renaissance (excluding Shakespeare), with emphasis on Marlowe, Jonson and Webster.—R. Patterson.

3 points. M W 2:40-3:55. H

English ENG BC 3197x. (Section XIX) Text and Context: Troilus and Cressida.

A study of the shifts in representation and interpretation of the legend of Troilus and Cressida to Shakespeare.—T. Szell.

4 points. Th 4:10-6:00.

English ENG BC 3997x. IX: Epic and Romance.

Epic and romance, from the classical period to the twentieth century, and study of their competition and mutual influence. Readings from Greek romance, Latin epic, Chaucer, Malory, Spenser, Milton, the novel, science fiction.—C. Baswell.

Not offered in 1988-89.

4 points.

English ENG BC 3998y. I. Medieval Literature.

I. Medieval Literature.

C. Baswell. Tu 4:10-6:00.

II. Renaissance Literature.

R. Patterson. Th 2:10-4:00.

French FRE BC 3031x. The Middle Ages.

"Fin'amor": analysis and evolution of the concept of love through some literary and theoretical texts of the period, together with twentieth-century interpretations (contemporary literature and criticism, films). Medieval readings will include the Tristan poems, the prosa-*Lancelot*, works of Chrétien de Troyes, some Troubadours and Trouvères, Guillaume de Machaut, Alain Chartier, René d'Anjou, Christine de Pizan. Modern readings will include Cocteau, Gracq, as well as Kristeva, Denis de Rougemont, Zumthor. Feature films by Bresson, Carné, Rohmer.—A. Berthelot.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or permission of the instructor.

3 points. Not offered in 1988-89.

Medieval and Renaissance Studies

French FRE BC 3032x. Renaissance and Classical Prose.

Fictional and non-fictional prose of the sixteenth and seventeenth centuries: Rabelais, Montaigne, Descartes, Pascal, la Rochefoucauld, Madame de Sévigné, Madame de La Fayette, Bossuet, La Bruyère.—Instructor to be announced.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the permission of the instructor.

Enrollment limited to 20 students.

Not offered in 1988-89.

3 points. H

French FRE BC 3033y. Renaissance, Baroque and Classical Poetry.

Aesthetics of poetry from early Renaissance to classical age: the "Grands Rhétoriciens" (Molinet, Lemaire des Belges. . .), the "Ecole lyonnaise" (Scève, Labé, P. du Guillet), the poets of "la Pléiade" (essentially du Bellay and Ronsard), Agrippa d'Aubigné and Sponde, Saint-Amant, Malherbe, and Racine.—A. Berthelot.

Prerequisite: BC 3021, BC 3022, BC 3023, BC 3024, or the permission of the instructor.

3 points. *Not offered in 1988-89.*

German GER BC 3045y. Literary Traditions in the Time of the Medieval Empire.

Introduction to the feudal age and to German literature from about 1200 to about 1400: *Parzival*, *Tristan* and *Das Nibelungenlied*. Texts used for reading are in modern German.—R. Ayre.

Prerequisite: BC 1204 or the equivalent.

3 points. Tu Th 10:35-11:50. H

History HIS BC 1003x. The Early Middle Ages: 300-1050.

Fusion of Graeco-Roman, Judeo-Christian, and Germanic traditions, and emergence of Europe as a cultural unit. Carolingian and Ottonian empires.—S. Wemple.

3 points. *Not offered in 1988-89.* S

History HIS BC 1004y. The High Middle Ages: 1050-1450.

Social environment, political and religious institutions, and the main intellectual currents of the Latin West studied through primary sources and modern historical writings.—S. Wemple.

3 points. *Not offered in 1988-89.* S

History HIS BC 3406x. The History of Women in the Middle Ages.

Origins of the legal and social position of women in medieval society as reflected in patristic writings, and Roman and Germanic

codes. Contributions of women in the high and late Middle Ages to feudal and urban society, courtly love, monasticism, mysticism, medicine and literature.—S. Wemple.

Prerequisite: BC 1003 or BC 1004 or the equivalent. *Permission of the instructor required.*

4 points. *Not offered in 1988-89.* S

History HIS BC 3409y. Monasticism in the Middle Ages.

The emergence of Monasticism in the late third century; its survival and spread as spiritual, economic, educational and political institution to the fifteenth century.—S. Wemple.

4 points. *Not offered in 1988-89.* S

History HIS W 3225y. The Italian Renaissance.

E. F. Rice.

3 points. *Not offered in 1988-89.* S

History HIS W 3777y. Medieval Social History.

3 points. *Not offered in 1988-89.* S

History HIS G 4453x. Byzantine History.

An introduction to the history and civilization of the Byzantine Empire and its relations with neighboring cultures (Eastern and Western).—N.G. Garsoian.

Permission of the instructor required.

3 points. Tu 2:10-4:00. S

Italian ITA V 3221y. Machiavelli, Castiglione, Ariosto, Tasso.

An analysis of Machiavelli's *Prince* and *Mandragola*; Castiglione's *Book of the Courtier*; Ariosto's *Orlando Furioso* (selections), and Tasso's *Aminta* and *Gerusalemme Liberata* (selections).—M. Lorch.

3 points. Tu 2:10-4:00. *Third hour to be arranged for students with knowledge of Italian, Th 3:10-4:00 for students with no knowledge of Italian.* H

Italian ITA G 4075x-G4076y. Dante.

A reading of the *Divine Comedy* in the light of its philosophical and historical background.—M. Lorch.

Prerequisite: Open to qualified undergraduates with the permission of the instructor.

3 points. W 4:10-6:00.

Italian ITA G 4085x. The Italian Renaissance and the Latin Tradition.

Valla and Erasmus; humanist and classical sources of the *Orlando Furioso*.—M. Lorch.

3 points. *Not offered in 1988-89.*

Medieval and Renaissance Studies

Italian ITA G 4088y. Italian Literature of the Sixteenth Century.

Reading and analysis of the works of Machiavelli, Castiglione, Ariosto, Tasso, and others, in the Italian text.—J.C. Nelson.
3 points. Not offered in 1988-89.

Italian ITA V 3981x. Dante.

La Divina Commedia.

The Divine Comedy, focusing on textual analysis and the appreciation of Dante's masterwork as poetic text. Readings and lectures in Italian: class discussion and written assignments in either Italian or English.—L. Rebay.
3 points. Not offered in 1988-89. H

Italian ITA V 3196x. Petrarch and Boccaccio.

Filostrato, *Fiammetta*, the *Decameron* and selections from other works by Boccaccio. Origins of humanism and interrelations between Dante, Boccaccio and Petrarch.—A. Cavalla.
3 points. Tu 2:10-4:00. Third hour to be arranged.

Religion REL V 3406y. Medieval Ecclesiastical History: 900-1400.

Institutional, doctrinal, and social development of Latin Christianity from the post-Carolingian age to the conciliar struggles of the 15th century.—R. Somerville.
Not offered in 1988-89.
3 points. H

Religion REL V 3409x. Luther and the Radical Reformation: Piety and Politics.

Religious uniformity and diversity within the Protestant Reformation of the sixteenth

century. Special attention to major radical reformers and to such issues as the divinity of Jesus, the place of violence in reform, the relation between social and religious reform. Source material consists of debates, letters, journals, and theological tracts.—R. Luman.
3 points. Not offered in 1988-89. H

Spanish SPA BC 3017x. Spanish Literature in the Middle Ages and the Early Renaissance.

A consideration of how East meets West in the forging of a national ethos and culture. The presence of Christians, Moors, and Jews in Spanish literature from its origins to the early sixteenth century. Readings range from the epic masterpiece *El Poema del Cid* to *La Celestina* by Fernando Rojas.—M. Servodidio.
3 points. M W F 10:00. H

Theatre ETR BC 3131x. History of Theatre: the Greeks to Shakespeare.

Study of theatre literature and practice in the Greek and Roman periods through the Middle Ages and the Renaissance to the Resoration in England and France.—P. Berman, E. Swain.
Enrollment limited to 40 students.
Not offered 1988-89. Offered Autumn 1989.
3 points. H

For other Columbia courses and graduate courses, please consult the proper catalogues and see Professor Lorch.

Music

Office: 409 Milbank Hall

Telephone: 280-3825, 5096

Professors

Patricia Carpenter,¹ Hubert Doris (Chairman)

Assistant Professors

Severine Neff, Peter Schubert¹

Assistant

David Pannett

Other officers of the University offering courses listed below:

Professor

Ian Bent

Associate Professor

Jacques-Louis Monod

Assistant Professors

Susan Blaustein,¹ Walter Frisch, Bradford Garton, Michael Long, Katherine Rohrer, Elaine Sisman, Mark Tucker

Lecturers

Christopher Hatch, Arthur Kreiger

Associates

Niels Østbye, Michael Skelly

¹Absent on leave, Autumn Term.

The offerings of the department are designed to encourage the study of music as an art and a craft within the framework of the liberal arts. The courses in the Theory sequence are intended to develop an understanding of the way Western music has developed from the Renaissance to the present. These courses prepare the student practically and analytically for the courses in the History sequence. The History sequence covers the period from the Middle Ages to the mid-twentieth century, emphasizing not only the purely historical development of music, but also its place as an art in society.

The department provides practice rooms at a nominal charge. Preference in assigning hours is given in order of application to music majors and those enrolled in courses given by the department. Application for practice time should be made at the Office of Buildings and Grounds, Milbank Hall, during registration and the first week of classes by music majors, and by all others during the week following.

Book, scores, and records are available at the Barnard College Library. The Columbia University Music Library contains an extensive collection of music materials for reference, research and circulation. In addition, phonographs with a large collection of recordings are also available for use by students registered in music courses other than Music BC 1001, BC 1002, *An Introduction to Music*.

Students contemplating a career in performance or composition should also consult the announcement for the Program in the Arts, page 79.

REQUIREMENTS FOR THE MAJOR

The music major is a demanding one, but it is hoped that the student will find time to follow special courses of particular interest from among those presented in the Literature and History section of the departmental offering.

A total of 14 courses is required for the major:

V 2100-V2101, V 2300-V 2301, V 2303, V 2305	<i>Theory I, II, III, IV, V and VI</i>
V 3123, V 3124, V 3125, V 3126 V 3179	<i>History I, II, III, and IV</i> <i>Seminar: Historical and Analytical Studies in the Literature of Music</i>
V 3373	<i>Orchestration, Conducting, and Score Reading</i>

Music

A student intending to major in music should start with V 2100 and V 3123 as early as possible. BC 1001-BC 1002, though prerequisite for more advanced literature courses, is not required of music majors, since it covers the same kind of materials in greater depth in the courses already required of them. Applied music (a maximum of two courses) may be counted toward the degree, but is not required.

Students planning to do graduate work in theory or ethnomusicology must know at least two foreign languages, including German and French. Those planning graduate work in historical musicology must know Latin, and German or French. Courses in art history, history, philosophy, literature, and foreign languages are recommended for their relationship with musical studies, and should be elected after consultation with the department.

Students are advised to consult the Bulletin of the Graduate School of Arts and Sciences for those courses open to seniors and others with advanced training.

Piano requirement: The student must present herself for an audition with a member of the piano faculty immediately upon acceptance as a music major, and by appointment during the exam period of each term thereafter, until she has reached an appropriate level of proficiency at the keyboard, such proficiency to be certified by a member of the piano faculty no later than the end of the first term of the senior year. It is the student's obligation to make an appointment for these auditions prior to each exam period.

Majors must have participated for two years in the chorus, orchestra, choir, concert band, collegium musicum, chamber music, or other musical ensemble by the time they are graduated. A senior major is required to prepare a research paper, project or a recital with essay to be planned in consultation with her adviser no later than the beginning of the senior year.

REQUIREMENTS FOR THE MINOR

A minimum of six courses is required for the minor, four terms in the Theory sequence and two terms in the History sequence.

COURSES OF INSTRUCTION

LITERATURE AND HISTORY

MUS BC 1001x, MUS BC 1002y.

An Introduction to Music.

Elements of musical structure designed to form intelligent listening habits, and of the several great epochs of music, with emphasis on their style and structure.—Staff.

No previous knowledge of music is required. This course is not designed for students majoring in music.

3 points.

Section I M W 1:10-2:25.

Section II Tu Th 4:10-5:25.

H

MUS V 1003y. Literature of the Solo Song.

A survey of solo vocal literature of the eighteenth to the twentieth century.—H. Doris.

Prerequisite: Music F 1001 or Humanities C 1123 or the equivalent.

3 points. Not offered in 1988-89.

One hour is a listening hour.

H

MUS V 1005x. The Opera.

Survey of the development of opera from Monteverdi to the present.—K. Rohrer.

Prerequisite: BC 1001-BC 1002 or the equivalent.

3 points. M W 3:10-5:00.

One hour is a listening hour.

H

MUS V 1006y. The Symphony.

Survey of symphonic style and structure from 1750 to the present.—E. Sisman.

Prerequisite: BC 1001-BC 1002 or the equivalent.

3 points. Not offered in 1988-89.

One hour is a listening hour.

H

MUS V 1008y. Twentieth Century Music.

A survey of music from the late 19th century to the present.—W. Frisch.

Prerequisite: Music F 1001 or Humanities C 1123, or the equivalent.

3 points. M W 3:10-5:00.

One hour is a listening hour.

MUS V 1010x, y. Popular Music in the Americas.

A topical approach to selected popular music practices in their socio-historical context, with an emphasis on the twentieth century and the roles of commercialism and the mass media.

Topic: x: Rock, y: Salsa, Soca, Reggae.—P. Manuel.

3 points. Tu Th 3:10-5:00.

Permission of the instructor is required.

One hour is a listening hour.

MUS V 1015y. Music in the United States.

Main currents in American musical life, with emphasis on Ragtime, Jazz, Hymnody, Spirituals, Blues, Popular Songs, and major works of Copland, Ives, Ellington, Gershwin, Billings, Foster, and Reich.—M. Tucker.

3 points. Tu Th 1:10-3:00.

MUS V 1016x. Introduction to Jazz.

The musical and cultural features of jazz, beginning in 1900.—M. Tucker.

3 points. Tu Th 1:10-3:00.

One hour is a listening hour.

MUS V 1023y. Beethoven.

Life and major works of Beethoven in the context of 19th-century music.—E. Sisman.

Prerequisite: Music F 1001 or Humanities C 1123 or the equivalent.

3 points. M W 1:10-3:00.

MUS V 1617x. Electronic Music: Its Evolution and Techniques.

A comprehensive survey of electronic music from 1948 to the present, with detailed analysis of compositional techniques and their evolution and application among various groups and individual composers. Technical procedures employed in creating sound materials are discussed. Classes meet at the Electronic Music Center.—A. Kreiger.

Prerequisite: Course V 2101 or the equivalent, and written permission of the instructor.

3 points. M 3:10-5:00.

MUS V 3123x. History I.

Western music to the early sixteenth century.—I. Bent.

Prerequisite or corequisite: Course V 2100 or the equivalent.

3 points. Tu Th 3:10-5:00.

One hour is a listening hour.

H

MUS V 3124y. History II.

Western music from the early sixteenth century to the end of the seventeenth century.—K. Rohrer.

Prerequisite: Course V 3123 or permission of the instructor.

3 points. Tu Th 3:10-5:00.

One hour is a listening hour.

H

MUS V 3125x. History III.

Western music from the end of the seventeenth century to the early nineteenth century.—E. Sisman.

Prerequisite: Course V 3124 or permission of the instructor.

3 points. Tu Th 3:10-5:00.

One hour is a listening hour.

H

MUS V 3126y. History IV.

Western music from the early nineteenth century to the mid-twentieth century.—W. Frisch.

Prerequisite: Course V 3125 or permission of the instructor.

3 points. Tu Th 3:10-5:00.

One hour is a listening hour.

H

MUS V 3179x. Seminar. Historical and Analytical Studies in the Literature of Music.

Required seminar for senior majors to supplement and coordinate previous studies.—C. Hatch.

Prerequisites: Three years of the theory sequence, two years of the history sequence, and Courses V 3373-V 3374, or written permission of the instructor.

3 points. W 1:10-3:00.

H

Oriental Humanities-Music OMU V 3320x. Introduction to the Musics of East Asia and Southeast Asia.

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations.—P. Manuel.

3 points. Tu Th 1:10-3:00.

One hour is a listening hour.

Oriental Humanities-Music OMU V 3321y. Introduction to the Musics of India and West Asia.

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations.—P. Manuel.

3 points. Tu Th 1:10-3:00.

One hour is a listening hour.

THEORY

MUS V 1329x, MUS V 1329y. Musicianship.

Basic elements of music studied with the aim of developing musicianship.—S. Neff and Staff.

Prerequisite: Placement examinations will be given at the first class meeting, 501 Milbank.

3 points. Sections I, II, III M W 4:10-5:25.

All students taking the Music Theory sequence (V 2100 through V 2305) must take a placement examination in ear-training, and must satisfy the ear-training requirement either through the placement examination or the completion of the ear-training sequence V 2000 through V 2003.

MUS V 2000x, MUS V 2000y. Ear-training. Level I.

Intervals, rhythms, and melodic lines, for

Music

dictation and sight-singing.

Prerequisite: Placement examinations will be given at the first class meeting, 501 Milbank.

2 points.

Section I M W F 9:00-9:50.—Instructor to be announced.

Section II M W F 9:00-9:50.—Instructor to be announced.

MUS V 2001x, MUS V 2001y. Ear-training. Level II.

Three-and four-tone chords and simple passages, for dictation and sight-singing. Staff.

Prerequisite: Course V 2000 or the equivalent.

2 points.

Sections I, II M W F 9:00-9:50.

MUS V 2002x, MUS V 2002y. Ear-training. Level III.

Cadences and chord progressions, for dictation and sight-singing.—Staff.

Prerequisite: Course V 2001 or the equivalent.

1 point. Tu Th 9:00-9:50.

MUS V 2003x, MUS V 2003y. Ear-training. Level IV.

Modulations and extended musical passages, for dictation and sight-singing.—Staff.

Prerequisite: Course V 2002 or the equivalent.

1 point. Tu Th 9:00-9:50.

MUS V 2100x-MUS V 2101y. Theory I and II.

Autumn Term: modal counterpoint in two parts; all species (five), invertible counterpoint at the octave and twelfth, and canon. Spring Term: Diatonic harmony in four parts; triads and transformations (inversions and diatonic seventh chords); techniques of prolongation, embellishment, tonicization, and auxiliary (neighbor) modulations.—D. Pannett.

Prerequisite: Course V 1329 or the equivalent.

Corequisite: An appropriate level of the ear-training sequence (until completion of that sequence) as indicated by the placement test.

3 points. x and y: Tu Th 10:35-11:50.

MUS V 2100y, MUS V 2101x. Theory I and II.

Equivalent to V 2100x-V 2101y.

Prerequisite: Course V 1329 or the equivalent.

3 points.

x: M W 1:10-2:25. S. Neff.

y: Tu Th 10:35-11:50. J. Monod.

MUS V 2300x-MUS V 2301y. Theory III and IV.

Eighteenth-century harmonic and contrapuntal techniques; double counterpoint, canon,

two-part writing in the form of binary movements, inventions, and contrapuntal settings of chorale tunes.—C. Hatch.

Prerequisite: Course V 2101 or the equivalent.

Corequisite: An appropriate level of the ear-training sequence (until completion of that sequence) as indicated by the placement examination.

3 points. Tu Th 10:35-11:50.

MUS V 2303x. Theory V.

Selected eighteenth- and nineteenth-century works.—Instructor to be announced.

Prerequisite: Course V 2300-V 2301 or the equivalent.

Corequisite: Appropriate ear-training sequence (until completion of that sequence) as indicated by the placement examination.

3 points. M W 10:35-11:50.

MUS V 2305y. Theory VI.

Introduction to harmonic and contrapuntal techniques and structural principles of twentieth century music; selected twentieth century works.—P. Schubert.

Prerequisite: Course V 2303 or the equivalent.

Corequisite: appropriate ear-training sequence (until completion of that sequence) as indicated by the placement examination.

3 points. M W 10:35-11:50.

MUS V 3239x-MUS V 3240y. Composition.

Composition in the smaller forms, for voice, chorus, piano, organ, and pieces for violin or other instruments with piano.—W. Winslow.

Prerequisite: Course V 2301 or written permission of the instructor.

2 points. F 1:10-3:00.

MUS V 3373x-MUS V 3374y. Orchestration, Conducting and Score Reading.

Lectures and practice in orchestration and score reading, supplemented by practical demonstrations of instruments.—H. Doris.

Prerequisite: Course V 3101 or the equivalent.

3 points.

M W 3:10-4:25. H. Doris.

PERFORMANCE ACTIVITIES

(Applied Music)

A detailed description of the following activities is given in *A Guide to Barnard*.

Academic credit is granted only as indicated below.

Audition and rehearsal schedules for all activities will be posted outside the Columbia departmental office, 703 Dodge Hall, at least one week before registration.

MUS V 1591x-MUS V 1592y. University Orchestra and Chamber Music.

Auditions during registration period by appointment. Room 703 Dodge Hall. Students who register for orchestra alone will receive four points for four semesters, and will be charged at the rate of one point each semester. Students who register for orchestra and chamber music will receive four points for two semesters, and will be charged at the rate of four points each semester.—Instructor to be announced.

Audition necessary.

M 5:30-7:30 and additional rehearsals in the three weeks preceding each public concert.

MUS V 1593x-MUS V 1594y. Barnard-Columbia Chorus.

Auditions by appointment made at the first class meeting. Students who register for chorus will receive a maximum of four points for four or more semesters, and will be charged at the rate of one point each semester.—Instructor to be announced.

Audition necessary.

Tu Th 6:00-8:00.

MUS V 1595x-1596y. Barnard-Columbia Chamber Singers.

A small number of students in the Barnard-Columbia Chorus are chosen to rehearse and perform difficult music in several languages.—Instructor to be announced.

Not offered in the Autumn.

1 point. Tu Th 8:00-9:30.

COLLEGIUM MUSICUM

This organization acquaints the student with certain neglected and unfamiliar masterpieces of vocal and instrumental music not heard in concerts elsewhere. Music majors are particularly urged to attend the meetings and to participate in performances.

MUSIC FOR AN HOUR

This series of informal chamber concerts, held the last Tuesday in every month in the Sulzberger Parlor, is designed to give all interested instrumentalists a chance to perform for the University community. All those interested in participating should consult the department.

INSTRUMENTAL AND VOCAL INSTRUCTION

A maximum of two courses may be taken. Enrollment in additional courses in instrumental music is limited to music majors and to students concurrently enrolled in the theory sequence. Students will receive one point of degree credit for each course but will be charged tuition at the rate of three or four points for each course. Written permission from the chairman is required.

MUS BC 1501x, MUS BC 1502y.

Voice Instruction.

Entrance by audition only (call Department during registration for time and place of audition).

One hour private lesson weekly.—Instructor to be announced.

1 point. Hours to be arranged.

MUS W 1513x-W 1514y.

Introduction to Piano.

One half-hour private lesson weekly.

x: N. Østbye.

y: M. Skelly.

1 point. Hours to be arranged with instructor.

Oriental Studies

Office: 321 Milbank Hall

Telephone: 280-5417

Professors

John Meskill (Departmental Adviser), Barbara Stoler Miller¹ (Chairman)

Assistant Professor

Irene Bloom

Other officers of the University offering courses listed below:

John Mitchell Mason Professor

William Theodore de Bary

Professors

Kathleen R. F. Burrill, Pierre J. Cachia, Chou Wen-Chung (Music), Myron Cohen (Anthropology), Ainslie T. Embree (History), Carol Gluck, John Hawley (Religion), Gary K. Ledyard, Barbara Ruch, H. Paul Varley, Alex Wayman, Pauline Yu

Adjunct Professor

Philip B. Yampolsky

Associate Professors

Paul Anderer, Peter J. Awn, Robert Hymes, George Saliba, Madeleine Zelin

Adjunct Associate Professor

Vidya Dehejia (Art History and Archaeology), Marsha L. Wagner

Assistant Professors

Jerrilynn Dodds (Art History and Archaeology), Yael Feldman, Peter Manuel (Music), James Russell, Phillip Schuyler (Music), Harao Shirane, Paul Watt (Religion), Marilyn Wong-Gleysteen (Art History and Archaeology)

Senior Lecturer

Jeanette Wakin

¹Absent on leave, Autumn Term.

The primary aim of Oriental Studies is to introduce major Asian civilizations, their works and values, as a means of expanding knowledge of the varieties and unities of human experience. The General Courses below are designed for any student, whatever her major interests, who wishes to include knowledge of Asian life in her education.

The satisfactory completion of one of the following courses offered in the departments of East Asian Languages and Cultures, and Middle East Languages and Cultures satisfies the college requirements in the respective languages: Akkadian G 4204, *Intermediate Akkadian: Introduction to Old Babylonian*; Arabic W 1122, *Intermediate Modern Arabic*; Armenian W 1124, *Intermediate Armenian*; Chinese C 1202 or F 1202, *Intermediate Chinese* (second stage); Hebrew W 1122, *Intermediate Modern Hebrew*; Hindi W 1122, *Intermediate Hindi*; Japanese C 1202 or F 1202, *Intermediate Japanese* (second stage); Iranian W 1122, *Intermediate Persian*; Sanskrit G 6102, *Intermediate Sanskrit*; Turkish W 1122, *Intermediate Turkish*, or Urdu W 4002, *Advanced Urdu*.

Literature courses in the departments of East Asian Languages and Cultures, and Middle East Languages and Cultures in which readings are in the original languages may be used to fulfill the Barnard distribution requirements only with the permission of the Chairman of Oriental Studies.

Students who wish to enter Chinese, Japanese or Korean language courses above the introductory level *must* pass a language placement test before registering. Placement exams are given during the week *before* classes begin—contact Department of East Asian Languages and Cultures (407 Kent) for exact dates. For placement above the introductory level in Arabic, Hebrew, Hindi, Persian, Sanskrit, Turkish, or Urdu, contact the Department of Middle East Languages and Cultures (609 Kent). All students wishing to enter the Hebrew language program or wishing exemption from the Hebrew language requirement must take a placement test. The test is administered *every Wednesday during August from 11-1* in 609 Kent Hall.

Oriental Studies

REQUIREMENTS FOR THE MAJOR

A student who plans to major in Oriental Studies is advised to consult a member of the department in the Spring Term of her freshman year. Majors in the program come under the administration of the Committee on Foreign Area Studies. For admissions procedures and other details, see page 137.

To major in Oriental Studies, a student will choose to follow one of two tracks, East Asian or Middle East.

The East Asian Track

A minimum of 14 courses is required, including:

2 of the following courses:

Oriental Civilizations-Middle East V 3001	<i>Introduction to Major Topics in Asian Civilizations: The Middle East and India</i>
Oriental Civilizations-East Asia V 3002	<i>Introduction to Major Topics in Asian Civilizations: East Asia</i>
Oriental Civilizations V 3359	<i>Introduction to the Civilization of China</i>
Oriental Civilizations V 3361	<i>Introduction to the Civilization of Japan</i>

6 courses of an appropriate language, selected in consultation with an adviser;

4 courses on East Asia chosen from among those listed below, or with the adviser's permission, from the listings of other departments (Oriental Humanities V 3399-V 3400, *Colloquium*, may be substituted for one of the courses in this category); and

2 courses chosen from among East Asian seminars: East Asian W 4103, *Historiography of East Asia*; East Asian W 4101, *Critical Approaches to Chinese and Japanese Literature*; East Asian W 4902y, *Senior Seminar: China*; East Asian W 3904y, *Senior Seminar: Japan*; and Oriental Studies BC 3999, *Independent Study*.

The Middle East Track

A minimum of 12 courses is required, including:

Oriental Civilizations-Middle East V 3001	<i>Introduction to Major Topics in Asian Civilizations: The Middle East and India</i>
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4 to 6 courses of an appropriate language (Akkadian, Arabic, Armenian, Hebrew, Hindi-Urdu, Persian, Sanskrit, Turkish, or Uzbek), selected in consultation with an adviser;

A minimum of 6 courses chosen as a concentration. The concentration may be in ancient Semitic languages and cultures, Arabic studies, Armenian studies, Central Asian studies, Hebrew language, Indian studies, Iranian studies, or Turkish studies. The courses required in each of the concentrations and other details will be explained by the adviser. The courses listed under Middle East below represent a selection among those required in one or another of the concentrations. Students should consult the Middle East department office in 609 Kent Hall for a complete list of course offerings. See also the note on Graduate Courses at the end of this section.

REQUIREMENTS FOR THE MINOR

No minor is offered in Oriental Studies.

Oriental Studies

COURSES OF INSTRUCTION

GENERAL COURSES

Oriental Civilizations-Middle East ORM V 3001x. Introduction to Major Topics in Asian Civilization: The Middle East and India.

Interdisciplinary and topical approach to major issues and phases in development of Asian civilizations and their role in the contemporary world.—P. Awn and A. Embree.
4 points. Tu Th 10:35-11:50. S

Oriental Civilizations-East Asian OEA V 3002y. Introduction to Major Topics in Asian Civilization: East Asia.

Interdisciplinary and topical approach to major issues and phases in development of Asian civilizations and their role in the contemporary world.—R. Hymes, G. Ledyard, H.P. Varley.

4 points.

Section I Tu Th 9:00-10:50.

Section II Tu Th 10:00-11:50. S

Oriental Civilizations-Middle East ORM V 3003y. Introduction to Islamic Civilization.

Islamic civilization and its characteristic political, social and religious institutions and intellectual traditions. From its pre-Islamic Arabian setting to the present.—J. Wakin.

3 points. M W 2:40-3:55. S

Oriental Civilizations ORC V 3359y.

Introduction to East Asian Civilizations: China.

Evolution of Chinese civilization from ancient times to the 20th century, characteristic institutions and traditions.—I. Bloom.

3 points. M W 1:10-2:25. S

Oriental Civilizations ORC V 3361x.

Introduction to East Asian Civilizations: Japan.

Development of Japanese society and culture; national self-image and values as revealed in thought, institutions, literature and the national arts.—H.P. Varley.

3 points. M W 2:40-3:55. S

Oriental Studies ORS V 3379x. Readings in Oriental Studies.

3 points. Not offered in 1988-89.

East Asian EAS V 3340y. Theories of the Arts in China.

P.R. Yu.

3 points. Not offered in 1988-89. H

Oriental Humanities ORH V 3399x, ORH V 3400y. Colloquium.

Major works of Middle Eastern, Indian, Chinese and Japanese origin. V 3399x: Koran, Sufi poetry, *Upanishads*, Buddhist sutras *Bhagavad Gita*; V 3400y: *Analects*, *Tao-te Ching*, *Dream of the Red Chamber*, *Tale of Genji*, and Chinese and Japanese poetry.—I. Bloom, J. Meskill, F. Verellen, P. Watt, P. Yampolsky, and staff.

4 points.

Section I M 4:10-6:00.

Section II Tu 2:10-4:00.

Oriental Studies-Religion OSR W 4399x, W 4400y. Colloquium on Major Texts of the Oriental Traditions in Religion, Ethics, Social Thought and Literature.

Readings in translation. Autumn term: Koran, Islamic philosophy and theology, Ibn Khaldun, Sufi poetry, the *Upanishads*, Buddhist sutras, *Bhagavad Gita*, Sankara, Indian epics and drama; Spring term: *Analects* of Confucius, Lao Tzu, Mencius, *Lotus Sutra*, Zen texts, *Dream of the Red Chamber*, *Tale of Genji*, and Nô plays. Ethical and religious issues and their characteristic expression in diverse cultural traditions through a variety of literary forms.—P. Anderer, W.T. de Bary, J. Russell, F. Verellen, and staff.

Knowledge of the original language not required.

3 points.

M 4:10-6:00. H

Middle East-Oriental Humanities OHM V 3031y. Islamic Literature in Translation.

Modern literature of the Arabs, Persians, Turks, and other Islamic peoples.—K. Burrill.

3 points. Not offered in 1988-89. H

Oriental Humanities-Music OMU V 3320x. Introduction to the Musics of East Asia and Southeast Asia.

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations.—P. Schuyler.

3 points. Tu Th 1:10-3:00.

One hour is a listening hour.

Oriental Humanities Music OMU V 3321y. Introduction to the Musics of India and West Asia.

A topical approach to concepts and practices of music in relation to other arts in the development of Asian civilizations.—P. Manuel.

3 points. Tu Th 1:10-3:00.

One hour is a listening hour.

Oriental Studies

Oriental Humanities ORH V 3200x. Oriental Encounters: The American Experience.

B. Miller.

3 points. Not offered in 1988-89. H

Oriental Humanities ORH V 3340y. Masterpieces of Art in China, Japan, and Korea.

The decorative arts of ceramics, lacquers, and jades; Buddhist art, architecture, sculpture, and later paintings. Museum laboratory sessions—M. Wong-Gleysteen.

3 points. Tu Th 2:40-3:55.

Oriental Humanities ORH V 3339x. Masterpieces of Islamic and Indian Art.

Analysis and discussion of the significance of selected works of art and architecture of Islam and Buddhist and Hindu India.—V. Dehejia and J. Dodds.

3 points. Tu Th 10:35-11:50. H

Oriental Studies-Philosophy OPS C 3915y. Philosophical Problems in Human Rights: A Comparative Analysis of Eastern and Western Traditions.

I. Bloom and D. Sidorsky.

3 points. Not offered regularly. H

Oriental Studies ORS BC 3999x, ORS BC 3999y. Independent Study.

Specialized reading and research projects planned in consultation with members of the Oriental Studies teaching staff.—Staff.

Open to majors who have fulfilled basic major requirements on written permission of the staff member who will supervise the project.

4 points. Hours to be arranged.

EAST ASIAN

East Asian EAS V 3110x. Rulers and Ruled in Traditional China.

R. Hymes.

3 points. Not offered in 1988-89.

East Asian EAS V 3310y. Rebellion and Revolution in Modern China.

M. Zelin.

3 points. Tu Th 10:35-11:50.

East Asian EAS V 3315x. Literature and Film in Modern China.

M. Wagner.

3 points. Not offered in 1988-89.

East Asian EAS V 3450y. China's Sprouts of Capitalism.

M. Zelin.

3 points. Not offered in 1988-89.

East Asian EAS V 3623y. The World of the Shining Prince.

Interdisciplinary study of the religious, social, artistic, and literary dimensions of Japan's great classical period, with particular attention to *The Tale of Genji* and other literary masterpieces.—H. Shirane.

3 points. Not offered in 1988-89. H

East Asian EAS V 3520y. Two Great Novels and their Worlds. Tale of Genji and Dream of the Red Chamber.

3 points.

East Asian EAS V 3530x. Image and Imagination in Chinese Poetry.

A critical examination of imagery, primarily of nature, in Chinese poetry, its cultural presuppositions and interpretive legacy, as a means of understanding important trends within the tradition as a whole and comparing them with selected examples from Western poetic theory and practice.—P. Yu.

3 points. Tu Th 2:40-3:55.

Japanese JAP V 3516y. Japanese Writers since 1945.

A consideration of the role of writers in Japanese society since the end of the war, covering the main literary, cultural, and political elements that have affected the writing and reading of literature during this time.

3 points. Hours to be arranged.

East Asian EAS V 3610y. Social Change Reflected in Literature and Films of Modern Japan.

C. Gluck.

3 points. Not offered in 1988-89.

East Asian EAS V 3615x. Japanese Literature and Film.

Analysis of narrative patterns and possibilities in Japan since the late nineteenth century.—P. Anderer.

3 points. Tu Th 4:10-5:25.

Oriental Studies

East Asian EAS V 3620y. Japan: The Aesthetic Tradition.

Cultural history, stressing aesthetic sensibility of the Japanese as revealed in religion, society, thought, and the arts. Landscape gardens, the culture of tea, Nō theater, and modern "I-novel."—H.P. Varley.

3 points. M W 2:40-3:55.

East Asian EAS V 3625y. The Samurai, a Social and Cultural History of Japan's Warrior Class.

H.P. Varley.

3 points. Not offered in 1988-89.

East Asian EAS V 3605x. Writers of Excess: Literature and Imagination in Modern Japan. —P. Anderer.

3 points. Not offered in 1988-89.

**East Asian EAS V 3635x. Women in
Japanese Literature, Language and Culture.**
An examination of women's participation in Japanese social, political, religious, and literary history from the 7th to the 20th century, with special attention to the role of women writers from the classical period to the present day.—B. Ruch.

3 points. Tu Th 10:35-11:50. H

East Asian EAS V 3650y. The Family in Chinese History.

The history of the Chinese family, its changing forms and cultural expressions: marriage and divorce, parent and child, clan and lineage, ancestor worship, the role of women, the relation of family and state, Western parallels and contrasts.—R. Hymes.

3 points. Tu Th 1:10-2:25. S

East Asian EAS G 4220x. Japanese Narrative. —B. Ruch.

3 points. Not offered in 1988-89. H

East Asian EAS W 3902y. Senior Seminar: China. Staff.

*Permission of the chairman required.
3 points. Hours to be arranged.*

East Asian EAS W 3904y. Senior Seminar: Japan. P. Anderer and staff.

*Permission of the chairman required.
3 points. Hours to be arranged.*

Japanese JAP G 4027x, JAP G 4028y. Introduction to Japanese Thought.

W.T. de Bary.

3 points. Not offered in 1988-89.

East Asian- Comparative Literature EAS W 4101x. Critical Approaches to Asian Literature.

Principles of literary theory developed in the West, contrasted with literary criticism of China and Japan. Emphasis on the application of these critical methods to selected works of Chinese and Japanese poetry and prose.—P.R. Yu.

3 points. Tu Th 1:10-2:25.

East Asian EAS W 4103x. Historiography of East Asia.

Major issues in the practice of history illustrated by critical reading of important historical work on East Asia.—Instructor to be announced.

3 points. M W 4:10-5:25. S

History-Japanese HIJ 3600x. World War II in American and Japanese History.

—C. Gluck with lectures by W.P. Metzger, J. Senton and others.

3 points. Not offered in 1988-89.

History-Japanese HIJ G 4860x, HIJ G 4861y. Intellectual History of Modern Japan.

—C. Gluck.

3 points. Not offered in 1988-89.

History-Korean HIK W 4031x. The History of Korea.

An introduction to the development of Korean civilization from the Neolithic age to 1636.—G. Ledyard.

3 points. Tu Th 1:10-2:25.

History-Korean HIK W 4033y. The History of Modern Korea.

Korean history from 1636 to the present.—G. Ledyard

3 points. Tu Th 1:10-2:25.

MIDDLE EAST

Armenian-History G 4501x, G4502y. Armenian History and Civilization. IA and IB.

An introduction to the history and culture of Greater Armenia from the pre-Armenian Urartean period to the end of the Bagratid dynasty.—N. Garsoian.

3 points. Tu 4:10-6:00. S

Oriental Studies

Comparative Literature-Middle East CME W 4115y. Traditions of Indian Literature: Epic, Drama, and Lyric.

Critical examination of selected ancient and classical Indian texts, focusing on the two ancient epics, Mahabharata and Ramayana, and dramatic and lyric works related to them. Poems and plays in Sanskrit and Tamil will be studied in terms of Indian and Western theories of literature. Readings in translation.—B. Miller

3 points. Not offered in 1988-89.

History HIS G 4453x-G 4454y. Byzantine History.

An introduction to the history and civilization of the Byzantine Empire and its relations with neighboring cultures (Eastern and Western).—N. Garsoian.

3 points. Tu 2:10-4:00.

Art History ARH W 4127x. A History of Indian Art.

With the cities of the Indus civilization in the third millennium B.C., this wide-ranging survey explores the history of Buddhist, Hindu, and Islamic monuments of the Indian subcontinent. The arts of sculpture and painting are highlighted, and the art of adjoining areas such as Nepal and Sri Lanka are considered.—V. Dehejia.

3 points. W 4:10-6:00 H

Art History ARH W 3150x. Art and Architecture of the Ancient Near East.

Arts of the ancient cultures of Mesopotamia, Iran, Anatolia, Syria, and Palestine from the fourth millennium through the Achaemenid period in the late first millennium B.C.—J. Russell.

3 points. W F 10:35-11:50.

Hebrew HEB W 3330x. Introduction to Hebrew Poetry.

The course will offer both an extensive view of Israeli poetry of the last forty years and intensive readings of representative poems by the chief Israeli poets. The poems will be examined and analyzed from different vantage points. Attention will be paid to form and technique as well as to theme and idea. Most of the poems which will be discussed have been translated into English. The readings will, therefore, be either in Hebrew or in English.—D. Miron.

3 points. M W 1:10-2:25. H

Comp. Lit.-Hebrew CLH G 4400x-G 4401y. Bible as Literature I and II.

Either term may be taken separately. Consideration of recent literary approaches to Old Testament narrative and verse (Alter, Auerbach, Barthes, Buber, Frye, Hrushovsky, Leach, Sternberg et al.). Although classes are conducted in English, structural and semantic issues are examined in light of Hebrew text. Problems of translation are also addressed; however, the required reading may be done in either language. G 4400: *Genesis, Exodus, Judges, Samuel, Psalms.* G 4401: *Kings, Isaiah, Jeremiah, Job, Ruth, Jonah, Ecclesiastes.*—Y. Feldman.

3 points. Th 2:10-4:00. H

History HIS W 1002x-W 1003y. Ancient History of Mesopotamia and Asia Minor.

A survey of political and cultural history of Mesopotamia, Anatolia, and Iran, from pre-history to the disappearance of the cuneiform documentation. Special emphasis on Mesopotamia.—M. Van De Mieroop.

3 points. M W 11:00-12:15.

History HIS W 1410y. Main Currents in Middle Eastern History.

Introduction to the ancient, Hellenistic, Islamic, and modern history of the area.—R. Bulliet.

3 points. M W F 10:00-10:50. S

History HIS W 4416x. History of the Ottoman Turks: 1400-1700.

History of Ottoman Turks in the Central Period and in the Central lands.—R. Murphey.

3 points. M W 2:40-3:55. S

History HIS W 4417y. The Modern History of the Ottoman Turks: 1700-1920.

History of the Ottoman Turks; their relations with Turko-Iranian, Mameluke, and Berber-Arab states; and their relations with the Spanish Habsburg monarchy, Italy, the Danubian Habsburg monarchy, the Polish commonwealth, and Romanov Russia.—R. Murphey.

3 points. M W 2:40-3:55. S

History HIS W 4422x. History of Islamic Society.

Focus on religions, conversion, ethnic relations, development of social institutions, and the relationship between government and religion.—R. Bulliet.

3 points. Tu Th 4:10-5:25. S

Oriental Studies

History HIS W 4525x. History of South Asia. The development of modern India from the decline of the Mughal Empire and the first establishment of British power to the present. Special attention to the impact of the West; intellectual and cultural movements; the rise of nationalism; the social, political, and economic problems of independent India, Pakistan, and Bangladesh.—A. Embree.

3 points. M W 11:00-12:15. S

History-Middle East HME W 3700y. Travel Literature of the Middle East.

A course of readings with special reference to travel and travel literature relating to the Middle East, 1500-1800.—R. Murphey.

3 points. Tu Th 1:10-2:25.

History-Middle East HME W 4003x. History of Afghan and Russian Central Asia.

The ideas and impact of kingship, of ideal and actual leaders, during periods of decline and resurgence from the 18th century to the Soviet period.—E. Allworth.

3 points. M W 2:40-3:55. S

Indic IND G 4102y. History and Cultures of the Himalayan Area.

History and cultures of the Himalayan area in relation to India and Tibet from the earliest to modern times.—T. Riccardi.

3 points. W 2:10-4:00. S

Indic IND G 4210x. Indian Civilization.

The development of Indian civilization and culture from the earliest times to A.D. 1200. Proceeds chronologically and focuses on problems of research in archaeology, philosophy, paleography, history, and religion, and the interrelationships among these disciplines.—T. Riccardi.

3 points. W 2:10-4:00.

Indic-Religion INR W4444x-W4445y. Ancient Indian Philosophy.

A. Wayman.

3 points. W 11:00-12:50.

Islamic-Religion ISR V 2630y. Islam.

P. Awn.

3 points. M W 4:10-5:25.

Islamic-Religion INR V 3635x.

History of Sufism.

History of the Islamic mystical tradition from its origins in the 8th century, through its classical and institutional phases in the 12th century and following, concluding with an evaluation of the role of Sufism in the modern Islamic world.—P. Awn.

3 points. M W 2:40-3:55. S

Islamic-Religion INR W 4300x. Islam in India.—D. Lelyveld.

2 points. Tu Th 9:10-10:25.

Islamic-Religion INR W 4500x. The Qur'an and Its Interpretation.—J. Wakin.

3 points. M 2:10-4:00.

Middle East MDE W 4020x. Introduction to Tibetan Culture.

A lecture introduction to Tibetan culture, including two slide shows and a field trip. Historical sketch, including influences from neighboring countries. The aboriginal Bonpo, the Gesar epic. The Buddhist religious literature and sects. Tibetan language and art. Introduction to the scholarly literature.—A. Wayman.

3 points. Tu Th 2:40-3:55.

Middle East-Religion MDR W 4205y. Shamanism.

A study of shamanistic religion which was important and widespread in early Indo-European cultures of the Near East and Asia, and is still dominant in much of Siberia. Emphasis is on these peoples and regions with comparative material to be discussed from other modern societies (e.g., the Jivaro of Peru).—J. Russell.

3 points. W 4:10-6:00. An additional hour to be arranged for undergraduates.

Oriental Civ.-Middle East ORM V 3001x. The Middle East and India.

An interdisciplinary and topical approach to the major issues and phases in the development of Asian civilizations and their role in the contemporary world.—P. Awn, A. Embree.

4 points. Tu Th 10:35-11:50.

Oriental Civ.-Religion OSR W4399x. Colloquium on Major Texts of Oriental Traditions in Religion, Ethics, Social Thought and Literature.—J. Russell.

3 points. M 4:10-6:00.

Turkish TUR G 4111y. Turkish Folk Literature I.

A historical survey of folk poetry and prose with readings reflecting the political, social, and cultural evolution of the Turks and their relations with neighboring peoples.—K. Burrill.

3 points. Tu 2:10-4:00.

Political Science POS BC 3424y. Colloquium on Asian Politics.—L. Calman.

Offered in alternate years. Not offered in 1988-89.

Oriental Studies

Religion REL V 1102x,y. Introduction to the Study of Eastern Religions.

x: M W 11:00-12:15. V. L. Nyitray.

y: M W 11:00-12:15. A. Tuck.

3 points.

Also note offerings under Eastern Religions in the Religion Department.

ORIENTAL LANGUAGE COURSES

Language courses are offered through the departments of East Asian Languages and Cultures and Middle East Languages and Cultures. Consult the listings of these departments in the Columbia College and Graduate School of Arts and Sciences bulletins for

detailed descriptions of courses. Three or more years of language instruction, beginning at the elementary level, are offered in Arabic, Armenian, Chinese, Hindi-Urdu, Japanese, Persian, Sanskrit, Turkish.

No credit is given for the first semester of the elementary year until the second is completed.

GRADUATE COURSES

Certain graduate courses given in the University may be taken by majors, with the consent of the major adviser, to supplement department offerings. Consult the Bulletin of the Graduate School of Arts and Sciences for listings.



Philosophy

Office: 326 Milbank Hall

Telephone: 280-4689, 5417

Professors

Hidé Ishiguro, Sue Howard Larson (Chair), Mary Mothersill¹

Assistant Professors

Robert Tragesser, Palle Yourgrau

Adjunct Associate Professor

John Arras

Lecturers

Eric Katz (Environmental Science), John Lad

Other officers of the University offering courses in Philosophy:

Professors

Bernard Berofsky, Arthur C. Danto, Richard F. Kuhns, Jr., Isaac Levi, Sidney Morgenbesser, Charles D. Parsons, David Sidorsky, Gisela Striker, James F. Walsh¹

Assistant Professors

Charles Larmore, Shaughan Lavine, Thomas Pogge

¹Absent on leave, 1988-89

The department offers a wide range of courses designed to acquaint the student with traditional and contemporary work in ethics, metaphysics, theory of meaning, aesthetics, theory of knowledge, and philosophy of logic. The courses are designed to facilitate student participation and each class is conceived as a workshop. The student is expected to develop a competence in technique of conceptual analysis, argument, and the interpretation of texts.

Philosophy BC 1001, *Introduction to Philosophy*, although not a requirement for the major, is recommended to students who have not had previous training in philosophy.

REQUIREMENTS FOR THE MAJOR

A major in Philosophy consists of at least 10 courses:

V 3701, *Moral Philosophy*, V 3411 or V 3415 or F 3410, *Formal Logic*

One of the following courses:

Philosophy V 3121

Plato

Philosophy V 3131

Aristotle

Philosophy V 1101

The History of Philosophy:

Pre-Socratics through Augustine

One of the following courses:

Philosophy V 3222

Descartes, Spinoza and Leibniz

Philosophy V 3240

Locke, Berkeley and Hume

Philosophy V 1201

The History of Philosophy:

Aquinas through Kant

A course in a specific figure in the history of modern philosophy no later than Kant

or

One of the following courses:

Philosophy V 3483

Theory of Meaning

Philosophy V 3601

Metaphysics

Philosophy V 3501

Theory of Knowledge

Philosophy

Two semesters of Philosophy BC 3288-BC 3289, *Majors' Seminar*, and three electives.

The sequence of courses is to be determined in consultation with the major adviser. Philosophy BC 3288-BC 3289 may be taken either in the senior year or beginning in the second term of the junior year. The topic for the seminar is set each year on the basis of consultation with the students. A number of short papers will be required or, subject to departmental approval, a student may elect to write a Senior Essay.

Students who wish to complete a double or joint major including philosophy should consult the chair of the department as early in their planning as possible.

Philosophy BC 3398, BC 3399, *Supplementary Readings in Philosophy*, is open to students who have a well-developed individual project with departmental approval and permission of the instructor.

REQUIREMENTS FOR THE MINOR

Five courses constitute a minor in philosophy. Courses are to be selected on the basis of consultation with the adviser.

LIMITED ENROLLMENT COURSES

Class lists must be signed in 326 Milbank.

COURSES OF INSTRUCTION

PHI BC 1001x, PHI BC 1001y. Introduction to Philosophy.

Interpretation and analysis of major topics in ethics, metaphysics, theory of knowledge, readings from historical and contemporary sources.—Staff.

x: Section I M W 11:00-12:15. P. Yourgau.

Section II M W 1:10-2:25. J. Lad.

Section III M W 2:40-3:55. H. Ishiguro.

Section IV Tu Th 10:35-11:50. R. Tragesser.

Section V Tu Th 1:10-2:55. Instructor to be announced.

Section VI Tu Th 2:40-3:55. Instructor to be announced.

y: Section I M W 11:00-12:15. J. Lad.

Section II M W 1:10-2:25. Instructor to be announced.

Section III M W 2:40-3:55. R. Tragesser.

Section IV Tu Th 10:35-11:50. P. Yourgau.

PHI V 1101x. The History of Philosophy: Pre-Socratics through Augustine.

Exposition and analysis of the positions of the major philosophers from the pre-Socratics through Augustine.—G. Striker.

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 2:40-3:55.

H

PHI V 1201y. The History of Philosophy: Aquinas through Kant.

Exposition and analysis of the positions of the major philosophers from Aquinas through Kant.—J. Walsh.

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 2:40-3:55.

H

PHI BC 3161. Greek Philosophy.

Not offered in 1988-89.

3 points.

PHI V 3121y. Plato.

An introduction to Plato's philosophy through analysis of characteristic middle dialogues, including the *Meno* and the *Gorgias*.—G. Striker.

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 2:40-3:55.

H

PHI V 3131y. Aristotle.

Not offered in 1988-89.

3 points.

PHI V 3222x. Descartes, Spinoza and Leibniz.

A systematic analysis of concepts central to seventeenth-century Rationalism. The focus is on problems in epistemology and metaphysics discussed in relation to logical theory and philosophy of science.—H. Ishiguro.

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 11:00-12:15.

H

PHI V 3240y. Locke, Berkeley and Hume.

A study of the principal topics of British Empiricism. Problems to be discussed include: sense perception, innate ideas, foundations of empirical knowledge, substance and cause, personal identity and freedom of the will.—R. Tragesser.

H

Philosophy

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 11:00-12:15. H

PHI V 3601x. Metaphysics.

Systematic treatment of some major metaphysical topics, e.g., necessity, causality, particulars and universals, personal identity; readings from classical and contemporary authors.—B. Berkofsky.

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 2:40-3:55. H

PHI BC 3352. Recent European Philosophy.

3 points. H

PHI BC 3881x. The Idea of God.

Philosophical conceptions of God, proofs of the existence of God, the relation of God to the world. Readings from Plato, Aristotle, Augustine, Aquinas, Maimonides, Kant and contemporary authors.—P. Yourgrau.

Prerequisite: One philosophy course or permission of the instructor. Limited enrollment.

3 points. Tu Th 1:10-2:25. H

PHI V 3364x. Wittgenstein.

An examination of the relation of the philosophical views of Wittgenstein to those of Frege and Russell, and a discussion of the central problems in his works as, e.g., rule-following, privacy, psychological concepts, myths, identity, logical form.—*Instructor to be announced.*

Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 2:40-3:55. H

PHI F 3410y. Formal Logic.

A first course in modern symbolic logic, reviewing a variety of logic methods and systems; emphasis on the concept of proof.—*Instructor to be announced.*

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 6:10-7:25. H

PHI V 3411x. Formal Logic A.

Deductive logic: basic concepts and techniques of propositional and quantificational logic. Treatment by these methods of arguments in ordinary language. Relations of the concepts of truth, proof, interpretation and validity. The relation of logic to science.—C. Parsons.

Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 10:35-11:50. H

PHI V 3415y. Formal Logic B.

Basic concepts and techniques of propositional and quantificational logic and their use for treating arguments in ordinary language. Metatheoretical analysis of (i) the relation between logical truth and proof (Gödel's completeness theorem) and (ii) the problem of deciding logical questions by idealized computers (Church's theorem).—S. Lavine.

Prerequisite: One philosophy course or permission of the instructor. A student may not take both Formal Logic A and Formal Logic B for credit.

3 points. Tu Th 9:10-10:25. H

PHI V 3483y. Theory of Meaning.

Consideration of questions about the nature of language and truth, with attention to the role of the concept of truth in constructing theories of meaning for natural languages. Readings from Frege, Austin, Davidson and others.—

Prerequisite: One philosophy course or permission of the instructor.

3 points. Tu Th 2:40-3:55. H

PHI V 3701x, PHI V 3701y.

Moral Philosophy.

Introduction to the central problems of moral philosophy; reasons for action; obligation; rights and duties; alternative moral ideals; the status and justification of moral judgments.

Prerequisite: One philosophy course or permission of the instructor. Limited enrollment in Autumn Term.

x: S. Larson, Tu Th 2:40-3:55. y: D. Sidorsky, Tu Th 10:35-11:50.

3 points. H

PHI V 3715y. Topics in Moral Philosophy.

Instructor to be announced.

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 1:10-2:25.

PHI V 3301. Twentieth Century Philosophy.

Major movements in their cultural contexts: Pragmatism, Logical Positivism, Linguistic Analysis, Phenomenology, Existentialism, and Structuralism. Readings from: James, Bergson, Moore, Russell, Wittgenstein, Husserl, Heidegger, Derrida, Sartre, and Dewey.—D. Sidorsky.

Prerequisite: One philosophy course or permission of the instructor.

3 points. M W 2:40-3:55.

PHI V 3651y. Philosophy of Mind.

A consideration of such central topics as

Philosophy

perception, sensation, imagination, emotion, dreaming, intention, volition, madness, self and subjectivity. Although references are made to the views of Aristotle, Descartes, Hume, Rousseau, Sartre and Wittgenstein, the main texts are contemporary works that discuss conceptual issues raised by the topics listed.—P. Yourgrau.

Prerequisite: One philosophy course or permission of the instructor. Limited enrollment.
3 points. Tu Th 1:10-2:25. **H**

PHI V 3720x, y. Ethics and Medicine.

Philosophical examination of moral issues in medical theory and practice. Analysis of the ethics of the doctor-patient relationship, e.g., informed consent, truth-telling, paternalism; topics in bioethics, e.g., abortion, euthanasia, experimentation on humans, justice and access to health care, human genetics.—J. Arras.

Prerequisite: One philosophy course or permission of the instructor. Limited enrollment.
3 points. Tu 1:00-4:00. **H**

PHI V 3765y. Ethics and International Affairs.

Introduction to problems at the intersection of ethics and international relations. The topics to be discussed include recent arguments in favor of an international morality, skepticism about the possibility of moral conduct among nation states, applications of Rawls' contract theory to a global context, autonomy, liberty, self-determination, international justice, and enforcement of international moral standards.—Instructor to be announced.

Prerequisite: One philosophy course or permission of the instructor.
3 points. M W 4:10-5:25. **H**

PHI V 3780y. Philosophy of Law.

An investigation of the uses of law. Among the topics covered are the nature of harm, paternalism, welfare legislation, obscenity, deterrence and retributive theories of punishment, justification and excuse, the insanity defense, the death penalty, the relation of law to morality.—Instructor to be announced.

Prerequisite: One philosophy course or permission of the instructor. Limited enrollment.
3 points. Th 1:00-4:00. **H**

PHI V 3501y. Theory of Knowledge.

Contemporary issues in the theory of knowledge and their historical sources.—I. Levi.

Prerequisite: One philosophy course or permission of the instructor.
3 points. M W 11:00-12:15. **H**

Environmental Science-Philosophy

ESP BC 3025y. Ethics and the Environment.

A philosophic examination of the relationship between humanity and nature with a focus on the moral justifications for environmental policies. Topics include: the utility of the natural environment, responsibilities to future generations, and the moral consideration of nature. Readings from several disciplines: philosophy, ecology, economics, political theory.—E. Katz.

3 points. Tu Th 2:40-3:55. **H**

PHI V 3758x. Philosophy of Education.

Philosophical reflections suggested by the analysis of particularly difficult pedagogical problems, as, e.g., those that arise in teaching autistic children or in dealing with groups from different ethnic and cultural backgrounds. Drawing on classical and contemporary authors, discussion will focus on the question of the conditions requisite for producing free and responsible individuals. Readings from Plato, Augustine, Rousseau, Emerson, Dewey and others.—R. Tragesser.

3 points. Tu Th 1:10-2:25. **H**

PHI V 3801y. Aesthetics.

Systematic inquiry into major problems in the philosophy of art: Idealism (Hegel), Nietzsche, Freud; Modernity and Formalism (Kant); and Imitation Theory (Plato and Aristotle).—R. Kuhn.

Prerequisite: One philosophy course or permission of the instructor.
3 points. Tu Th 2:40-3:55. **H**

PHI V 3803y. The Concept of Beauty.

Not offered 1988-89.
3 points. **H**

PHI V 3850x. Concept of Literature.

A study of the philosophical problems connected with truth and meaning in the literary arts, especially poetry. The focus will be on discoveries made by close reading, rhetorical analysis and deconstruction. Selected readings from Coleridge, Kierkegaard, Heidegger, Richards, Empson, Wimsatt, De Man, Hollander and others.—R. Tragesser.

Prerequisite: One philosophy course or permission of the instructor.
3 points. M W 2:40-3:55. **H**

PHI BC 3288x, PHI BC 3289y. Majors' Seminar.

Intensive study of selected philosophical classics; discussions, oral reports, and term papers.—x: S. Larson, y: H. Ishiguro.

Philosophy

*Enrollment limited to philosophy majors.
4 points. W 4:10-6:00. Conference hours to be
arranged. H*

**PHI BC 3399x, 3399y. Supplementary
Readings in Philosophy.**
*To be taken only with the consent of the instruc-
tor of the department.
4 points. Hours to be arranged.*

PHI V 3680. Attitude, Action and Reason.
*Instructor to be announced.
3 points.*

PHI V 3753. Social Philosophy.
*Not offered in 1988-89.
3 points.*

PHI V 3270. Nineteenth Century Philosophy.
*Not offered in 1988-89.
3 points.*

**PHI V 3657. Philosophical Idealism and
Psychoanalytic Theory.**
*Not offered in 1988-89.
3 points.*

PHI V 3654y. Philosophy of Psychology.
*Not offered in 1988-89.
3 points.*

**Philosophy-Women's Studies PWS PHI BC
3147. Philosophical Issues of Feminist Theory.**
*Not offered in 1988-89.
3 points.*



Physical Education

Office: 209 Barnard Hall

Telephone: 280-2085

Senior Associates

Sharon Everson (Chairman), Jean Follansbee

Associates

Priscilla Gilmore, Nancy Klitsner, Wendy Marks, Clifford Shultz

Requirement

Students admitted as freshmen must complete two semesters of Physical Education at Barnard. One semester must be passed in the freshman year and the requirement must be completed by the end of the sophomore year. Sophomore and junior transfers are required to complete one semester of Physical Education at Barnard. Transfers are expected to complete their requirement by the end of the junior year. Failure to complete the requirement by the specified deadlines will result in a failing grade. Physical Education courses are graded pass-fail based on attendance and participation.

Health Status

Students with permanent or temporary disabilities will be individually advised and placed in a suitable activity, based upon the recommendations of Dr. A. J. Sheehy, Medical Director, Health Services, Lower Level, Brooks.

Curriculum

The curriculum is organized and administered by the faculty of the Department of Physical Education. Instruction is offered in the areas of sports, aquatics, fitness, aerobics, and other specialized courses. Modern dance, ballet, tap, and jazz dance courses are offered under the auspices of the Dance Department and may be taken to fulfill the Physical Education requirement. Courses are designed to promote the development and enjoyment of lifetime motor skills which will afford opportunities to realize one's potential, and to provide vigorous exercise to release tensions often generated by strong academic commitments and intense urban life.

Intramurals

The Physical Education Department offers an extensive intramural program which features badminton, basketball, bowling, fencing, indoor soccer, wiffle ball, tennis, volleyball, fun runs, and recreational games. The program emphasizes participation in a friendly, competitive atmosphere; activities are open to all members of the college community. For more information contact Cliff Shultz, Director of Intramurals, 206 Barnard Hall, or call 280-2085.

Recreation

Recreational use of the gymnasium, swimming pool, track, weight room, and bowling alleys is available at specified times. All students, faculty, and staff are encouraged to participate and use the facilities.

Intercollegiate Athletics

The Barnard/Columbia Athletic Consortium provides the opportunity for eligible undergraduate women to compete together as members of University-wide athletic teams. Eleven varsity sports are currently sponsored: Archery, Basketball, Crew, Cross Country, Fencing, Soccer, Swimming & Diving, Tennis, Indoor and Outdoor Track & Field, and Volleyball. Governed by NCAA and Ivy League rules, all teams are Division I. Competition is scheduled with teams from the Ivy League, the metropolitan area, and the eastern region. In addition, students are eligible to qualify for state, regional, and national championships. Physical Education credit may be earned through satisfactory participation on a varsity team.

For more information contact Margie Tversky, Associate Director of Athletics, at the Columbia-Dodge Fitness Center, 280-8373, or check for information in the Physical Education Department in Room 209, Barnard Hall.

Registration

Registration for the Autumn Term takes place in the gymnasium starting the Tuesday after Labor Day. Registration for the Spring Term takes place starting the first day of academic classes in January. *After confirming registration with the Physical*

Physical Education

Education Department, students should include the Physical Education course by number, section, title and I.D. number on final programs filed with the Registrar.

Cross Registration

An agreement between the Department of Physical Education of Barnard College and Columbia College permits limited enrollment of Barnard students in selected Columbia courses. **Barnard students must successfully complete one Physical Education course at Barnard before they may elect a Columbia Physical Education course.** Columbia College and Engineering School students may register for designated Barnard courses during Barnard's registration period. **Other Columbia University students must receive permission from the Physical Education Department to register before filing their final program with the Registrar.**

Courses

Classes are organized in homogeneous skill groups for optimal learning. Students are advised to register according to their own skill level: Beginning, Advanced Beginning, Intermediate.

COURSES OF INSTRUCTION

AQUATIC COURSES

PED BC 1120x, PED BC 1120y. Beginning Swimming.

Development of confidence and survival techniques in the water. Introduction of front crawl and elementary backstroke.

PED BC 1121x, PED BC 1121y. Advanced Beginning Swimming.

Review of survival techniques, front crawl and elementary backstroke, Introduction of breaststroke.

PED BC 2122x, PED BC 2122y. Intermediate Swimming.

Further development of the front crawl, elementary backstroke, and breaststroke. Introduction of advanced survival techniques, sidestroke, backcrawl and open turns.

PED BC 2124y. Aqua-Aerobics.

Combination of various swimming strokes and water exercises used to develop cardiovascular endurance and muscle tone. Intermediate swimming skills required.

PED BC 3125x, PED BC 3125y. Lap Swim.

Students determine an individual training program with the instructor on a contract basis.

Not open to freshmen. Swimming test for class admission given at first class meeting.

PED BC 3128x. Advanced Lifesaving and C.P.R.

Personal safety, swimming rescues, preventive lifeguarding; leads to two Red Cross certifications.

Swimming test for class admission given at first class meeting.

PED BC 3129y. Water Safety Instructor Course.

Review of skills for beginner through lifesaving courses, instruction in teaching techniques; leads to Red Cross certification; **Current Advanced Lifesaving certification required.**

Swimming test for class admission given at first class meeting.

Permission of instructor required.

SPORTS COURSES

PED BC 1350x, PED BC 1350y. Beginning Archery.

Techniques of shooting target archery. Individualized instruction for all levels; selection and care of equipment; safety; intraclass tournaments and novelty shoots.

PED BC 3898x, PED BC 3898y. Varsity Team-Archery.

Practice and intercollegiate competition in Indoor Target Archery.

Permission of coach required.

For other varsity teams see Columbia course offerings.

PED BC 1353x, PED BC 1353y. Badminton.

Strokes, strategies, singles and doubles play. Intraclass tournaments provide competition for all levels.

PED BC 1357x, PED BC 1357y. Beginning Bowling.

Basic techniques of spot bowling and spare conversion; scoring and game play.

Physical Education

PED BC 2358x, PED BC 2358y. Self-Paced Advanced Bowling.

Individualized program of bowling instruction and play, set up on a contract basis.

Completion of Beginning Bowling with a minimum average of 100 or permission of the instructor required. Bowling test for class admission given at first class meeting.

PED BC 1360x, PED BC 1360y. Beginning Fencing.

Basic offensive and defensive foil techniques; footwork; rules and officiating.

PED BC 1361y. Advanced Beginning Fencing.

Expansion of basic skills and tactics; use of electrical apparatus; intraclass tournaments and development of officiating skills. *Completion of Beginning Fencing or permission of the instructor required.*

PED BC 1364x, PED BC 1364y. Beginning Tennis.

Forehand and backhand stroke development. Introduction to the serve; rules and scoring.

PED BC 1365x, PED BC 1365y. Advanced Beginning Tennis.

Refinement of forehand, backhand, and serve; scoring; simulated games. Introduction to the volley and doubles play.

PED BC 2366x, PED BC 2366y. Intermediate Tennis.

Further development of strokes, service return; net play; doubles play. Intra-class tournament.

PED BC 1470x, PED BC 1470y. Volleyball.

Introduction of forearm pass, overhead fingertip pass, serve and spike, and basic offensive and defensive strategies of power volleyball.

FITNESS COURSES

PED BC 1582x, PED BC 1582y. Aerobics.

Combination low/moderate impact cardiovascular exercise performed to a variety of music. Muscle toning exercises also included.

PED BC 1359x, PED BC 1359y. Self-Paced Cycling.

Individualized program of aerobic exercise utilizing stationary cycles performed on a contract basis.

Completion of one physical education course required. Cycling test for class admission given at first class meeting.

PED BC 1583x, PED BC 1583y. Beginning Fitness.

Introduction to a variety of conditioning programs; improvement of flexibility, strength, and cardiovascular efficiency.

PED BC 1584y. Advanced Beginning Fitness.

Continuation of beginning fitness; designed for the individual at a medium level of fitness.

PED BC 2584y. Intermediate Fitness.

Intensive fitness program for students who have taken BC 1583 or who have been engaged in a vigorous conditioning program.

PED BC 1585x, PED BC 1585y. Beginning Weight Training.

Introduction to principles of weight training; use of the Universal Weight Machine and free weights. Programs tailored to individual needs with an emphasis on lifetime fitness.

PED BC 1586y. Advanced Beginning Weight Training.

Continuing of beginning weight training; emphasis on free weights and individualized training.

Weight Training (A) or permission of the instructor required.

SPECIAL COURSES

PED BC 1690x, PED BC 1690y. Beginning Self Defense.

Development of confidence, using basic defensive and offensive moves, so that a person can handle a threatening situation effectively and with minimal confrontation.

PED BC 1693x, PED BC 1693y. Beginning Yoga.

Basic Hatha yoga positions; body awareness; relaxation.

PED BC 1695x, PED BC 1695y. Advanced Beginning Yoga.

Basic standing poses and inverted postures—plough, shoulderstand, headstand, handstand.

PED BC 2799x, PED BC 2799y. Independent Study.

Enrollment in a course of instruction.

Not open to freshmen or transfer students. Approval of Department required. Limited to one semester of credit.

DANCE

See Dance Department (page 109) for course listings. Studio Dance Courses may be taken to fulfill the Physical Education requirement. Courses offered are:

Ballet—Beginning, Low Intermediate, Intermediate, Advanced.

Jazz—Low Intermediate, Intermediate.

Modern—Beginning, Low Intermediate, Intermediate.

Tap—Beginning, Intermediate.

Physics

Office: 503 Altschul Hall

Telephone: 280-5101

Professors

Richard M. Friedberg, Sally Chapman (Chemistry, Chair of the Executive Committee for Physics)

Assistant Professors

Karen M. Barad, Leslie J. Root

Other officers of the University offering courses listed below:

Professors

Charles Baltay, Norman Christ, Gerald Feinberg, Paolo Franzini, Sven Hartmann, David Helfand, T.D. Lee, Wonyong Lee, Joaquin Luttinger, Alfred Mueller, Shoji Nagamiya, Robert Novick, Malvin Ruderman, Allan Sachs, Frank Sciulli, Michael Shaevitz, Jacob Shaham, Erick Weinberg

Adjunct Professor

Allan Blaer

Assistant Professors

Elena Aprile, Jules Halpern, Christopher Martin, Velayudhan Nair, Adrianus Pruiskens, Richard Seto, Stephen Smith, Wesley Smith, Andrew Szentgyorgyi, Michael Tuts, George Tzanakos, William Zajc

The study of physics ranges from disciplined preparation for professional work in physics itself, or a basic education in physics necessary for the study of, or work in, other sciences and medicine, to a more general familiarity with physics and its historical development as part of contemporary culture.

In cooperation with the faculty of the University, Barnard offers a thorough preprofessional curriculum. The faculty represents a wide range of expertise, with special strength and distinction in elementary-particle and theoretical physics.

The department offers four distinct introductory sequences, only one of which may ordinarily be taken for credit.

1. C 1001-C 1002, *Elementary Physics*, and V 1305-V 1306, *Physics in Historical Perspective*, are intended for liberal arts students whose aim is to achieve some qualitative understanding of science.
2. Either V 1003, V 1004, *General Physics*, or V 1103, V1104, *General Physics*, is satisfactory preparation for medical school. Both cover the same material, but V 1103, V 1104 is somewhat more intensive and uses calculus; V 1003, V 1004 is not recommended as a foundation for more advanced work in physics.
3. An entering student with a serious interest in physics should enroll in the Autumn Term in C 1406, *General Physics I, Mechanics*, and the accompanying laboratory course, W 1906, which begins a four-term sequence (C 1407, C 1011, C 1012, *General Physics II-IV*, or the corresponding honors courses C 1607, C 1111, C 1112), leading to more advanced courses. Prospective majors should then take W 1907 concurrently with C 1407 or C 1607 in the Spring Term. (C 1011, C 1012, C 1111, and C 1112 may be taken without laboratory by nonmajors. See the Columbia College Bulletin for the appropriate course numbers.)
4. Freshmen with exceptional aptitude for physics and a good mathematical background may be admitted into the two-semester sequence, C 1021, C 1022, *General Physics*, which replaces all four terms of the sequence starting with C 1406. Admission is by special interview with the instructor. A student interested in this course should, if possible, attend the "Physics Placement Meeting" announced in the Columbia College Freshman Week Program.

There is a laboratory fee of \$25 for each 1000-level physics course with a laboratory.

REQUIREMENTS FOR THE MAJOR

The courses required for a major in physics are:

Either:

Four-semester introductory sequence: C 1406x with W 1906x, or F 1006y; C 1407y (or C 1607y—honors section) with W 1907y, or F 1007x; C 1011x or C 1111x or F 1011y; C 1012y or C 1112y or F 1012x.

or:

Two-semester introductory sequence: C 1021x and C 1022y.

All 1000-level courses must be taken with laboratory.

Also:

W 3003	<i>Mechanics</i>
W 3007, W 3008	<i>Theory of Electricity and Magnetism</i>
W 3021	<i>Quantum Physics</i>
W 3022	<i>Statistical Physics</i>
W 3083	<i>Electronics Laboratory</i>

and 4½ points of W 3081, *Intermediate Laboratory Work*.

Four terms of calculus are required, and some additional work in mathematics is recommended. The program should also include a year of chemistry, although in some instances astronomy, geology, or biology may be substituted.

In addition, students planning to study physics in graduate school are strongly urged to take:

G 4003	<i>Lagrangian Mechanics</i>
G 4021	<i>Quantum Mechanics</i>
G 4022	<i>The Physics of Atoms, Solids, Nuclei, and Particles</i>
W 3072	<i>Seminar in Current Research</i> .

The major examination consists of the Graduate Record Examination in physics.

REQUIREMENTS FOR THE MINOR

Courses required for the minor are C 1406 with W 1906 or F 1006; C 1407 (or C 1607) with W 1907, or F 1007; C 1011 or C 1111 or F 1011; C 1012 or C 1112 or F 1012; and one 3-point course at the 3000 level.

COURSES OF INSTRUCTION

PHY V 1305x, PHY V 1306y. Physics in Historical Perspective.

Topics in classical and modern physics with an emphasis on the historical development of physical theories. The experimental work is done in the History of Physics Laboratory. —L. Root.

Although this course is oriented primarily to non-science students, the course does require a willingness to review and use elementary algebra. Enrollment limited to 25 students.

Permission of the instructor required.

4½ points. Lecture Tu Th 1:10-2:25.

Laboratory 3 consecutive hours weekly to be arranged.

PHY C 1001x, PHY C 1002y. Elementary Physics.

Introduction to physics for students with no previous background. Selected topics in classical and modern physics. —C. Baltay.

This course uses very little mathematics. It does not fulfill the physics requirement for admission to medical school. It is primarily addressed to non-science students.

3 points. Lecture M W 1:10-2:25.

PHY V 1003x, PHY V 1004y. General Physics.

Mechanics and heat, electricity, magnetism, optics, and modern physics. —D. Helfand.

Calculus is not a prerequisite for this course.

4 points.

Lecture M W 11:00-12:15.

Physics

Laboratory 3 consecutive hours to be chosen from M Tu W Th 1:10-4:00 or M Tu W Th 4:10-7:00. Laboratory sections are arranged after the first class meeting.

PHY F 1003y. General Physics.

B. Burdick.

4 points. Lecture M W 6:10-7:25.

Laboratory 3 consecutive hours to be arranged.

PHY W 1003y, PHY W 1004x. General Physics.

E. Aprile.

4 points. Lecture M W 2:40-3:55.

Laboratory 3 consecutive hours to be arranged.

PHY V 1103x, PHY V 1104y. General Physics.

Same topics as V 1003-V 1004 discussed at a somewhat higher level, using calculus.—M. Tuts, G. Feinberg, W. Smith.

Prerequisite: Calculus I and II.

4 points.

Section I M W 11:00-12:15. A. Sachs.

Section II Tu Th 11:00-12:15.

Laboratory 3 consecutive hours to be chosen from M Tu W Th F 1:10-4:00 or M Tu W Th 4:10-7:00.

Laboratory sections are arranged after the first class meeting.

PHY C 1406x. General Physics I. Mechanics.

Fundamental laws of mechanics; kinematics, dynamics; work and energy; rotational dynamics and angular momentum; introduction to special relativity and relativistic kinematics, oscillations, gravitation.

Corequisite: Calculus I or the equivalent.

3 points.

Section I M W F 9:00-9:50. P. Rowson.

Section II Tu Th 11:00-12:15. A. Szentgyorgyi.

PHY C 1407y. General Physics II. Electricity and Magnetism.

Electrostatics; direct currents; electromagnetism; alternating currents; wave motion.—W. Zajc.

Prerequisite: C 1406. Corequisite: Calculus II or the equivalent.

3 points. M W F 9:00-9:50.

PHY W 1906x, PHY W 1907y. Physics Laboratory.

Experiments in mechanics, electricity, and magnetism.—S. Cummins.

W 1906x must be taken concurrently with C 1406x, and W 1907y must be taken concurrently with either C 1407y or C 1607y.

1 point.

Laboratory 3 consecutive hours every other week to be chosen from M Tu W Th F 1:10-4:00 or M Tu W Th F 4:10-7:00.

Introductory demonstration lecture 1 hour in alternate weeks.

Section I Tu 3:10-4:00.

Section II W 4:10-5:00.

PHY C 1011x. General Physics III. Optics and Thermodynamics.

Acoustical waves; light waves; polarization; geometrical optics; interference and diffraction of light; fluids; heat; states of matter; gas laws; the laws of thermodynamics; kinetic theory of gases.—J. Halpern.

Prerequisite F 1006 or C 1406. Corequisite: Calculus III.

3½ points. Lecture Tu Th 9:00-10:15.

Laboratory 3 hours every other week. Times to be arranged after first class meeting.

PHY C 1012y. General Physics IV. Modern Physics.

Quantum and relativistic effects; atomic structure and spectra; nuclear structure and reactions; fission and fusion; elementary particles.—C. Martin.

Prerequisites: C1011 and C 1407 or the equivalent.

3½ points. Lecture Tu Th 9:00-10:15.

Laboratory 3 hours every other week. Times to be arranged after first class meeting.

PHY C 1607y, PHY C 1111x, PHY C 1112y. General Physics II-IV.

Honors sections of C 1407y, C 1011x, C 1012y, respectively.—A. Szentgyorgyi, M. Tuts, J. Halpern.

Prerequisites: See C 1407y, C 1011x, C 1012y; also, permission of the instructor.

C 1607y: 3 points; C 1111x and C 1112y: 3½ points.

C 1607y: Tu Th 11:00-12:15.

C 1111x: Tu Th 9:00-10:15.

C 1112y: Tu Th 9:00-10:15.

PHY F 1006y, PHY F 1007x, PHY F 1011y, PHY F 1012x. General Physics I-IV.

S. Hartmann, and instructor to be announced.

3½ points. M W 4:40-5:55.

Laboratory 3 hours every other week.

Hours to be arranged after first class meeting.

PHY C 1021x, PHY C 1022y. General Physics.

Mechanics, heat, electricity, magnetism, and light.—G. Feinberg.

Prerequisite: Advanced placement in mathematics or some knowledge of differential and integral calculus, and permission of the departmental representative. (A special placement meeting is held during Freshman Orientation.)

4 points. Lecture Tu Th 11:00-12:15.

Laboratory 3 hours to be arranged at the first class meeting.

Physics

PHY W 3003x. Mechanics.

Newtonian mechanics. Conservative forces and potential energy. Central forces. Planetary motion. Rutherford scattering. Free and forced oscillations. Relativistic mechanics. A brief introduction to Lagrange's equations and Hamilton's equations.—W. Lee.

Prerequisites: General physics and integral calculus.

3 points. M W 11:00-12:15.

PHY W 3007y. Electricity and Magnetism.

Electrostatics and magnetostatics. Laplace's equation and boundary-value problems. Multipole expansions. Dielectric and magnetic materials. Faraday's law. AC circuits. Maxwell's equations. Lorentz covariance and special relativity.—W. Lee, W. Zajc.

Prerequisites: C 1407 or the equivalent, and differential and integral calculus.

3 points. M W 9:35-10:50.

PHY W 3008x. Electromagnetic Waves and Optics.

Maxwell's equations and electromagnetic potentials. The wave equation. Propagation of plane waves. Reflection and refraction. Geometrical optics. Transmission lines, wave guides, and resonant cavities. Radiation. Interference of waves. Diffraction.—W. Lee.

Prerequisite: W 3007.

3 points. M W 9:35-10:50.

PHY W 3021x. Quantum Physics.

Wave-particle duality and the Uncertainty Principle. Order-of-magnitude estimates in atomic physics. Basic principles of the quantum theory. Energy levels in one-dimensional potential wells. The harmonic oscillator, photons, and phonons. Reflection and transmission by one-dimensional potential barriers. Introduction to atomic and molecular physics. Electron spin resonance. Nuclear magnetic resonance.—M. Ruderman.

Prerequisite: C1012 or C 1022 or the equivalent.

3 points. Tu Th 9:00-10:15.

PHY W 3022y. Thermal and Statistical Physics.

Thermodynamics, kinetic theory, and statistical mechanics presented from a unified point of view. Classical and quantum statistics. The ideal gas. Black-body radiation. Liquid helium and superfluidity. Introduction to solid-state physics. Properties of metals, semiconductors, and insulators. Transistors.—M. Ruderman, E. Weinberg.

Prerequisite: W 3021x.

3 points. Tu Th 9:00-10:15.

PHY W 3072y. Seminar in Current Research Problems.

Detailed study of a selected field of active research in physics; motivation, techniques, and results obtained to the present, as well as the difficulties and unsolved problems.—Instructor to be announced.

Permission of the department representative required. Open only to senior physics majors.

2 points. Th 4:10-5:25.

PHY W 3081x, PHY W 3081y. Intermediate Laboratory Work.

The laboratory has available 12 individual experiments, of which two are required for 1½ points. Each experiment is chosen by the student in consultation with the instructor. Registration in each section is limited by the laboratory capacity. Experiments (classical and modern) cover electricity, optics, and atomic and nuclear physics topics.—P. Franzini, M. May.

For junior and senior physics majors. Other majors require the instructor's permission. May be repeated for credit by performing different experiments.

1½ points. Hours to be arranged.

PHY W 3083x, PHY W 3083y. Electronics Laboratory.

Experiments in solid state electronics, with introductory lectures.—Instructor to be announced.

Permission of the instructor required.

Corequisite: W 3003 or W 3007. Registration is limited to the capacity of the laboratory.

2 points. Tu Th 1:00-4:00.

PHY W 3900x, PHY W 3900y. Supervised Individual Research.—Staff.

For specially selected students, the opportunity to do a research problem in contemporary physics under the supervision of a faculty member. Each year several juniors are chosen in the spring to carry out such a project beginning in the autumn term. A detailed report on the research is presented by the student when the project is complete.

3 or 6 points.

PHY G 4003y. Lagrangian Mechanics.

Lagrange's formulation of mechanics. The calculus of variations and the action principle. Hamilton's formulation of mechanics. Applications to rigid body motion and normal modes.—Instructor to be announced.

Prerequisites: W 3003 or the equivalent, and differential and integral calculus.

3 points. M W 11:00-12:15.

Physics

PHY G 4021x. Quantum Mechanics.

The formulation of quantum mechanics in terms of state vectors and linear operators. Three-dimensional spherically-symmetric potentials. The theory of angular momentum and spin. Identical particles and the exclusion principle. Methods of approximation. Multi-electron atoms.—J. Shaham.

Prerequisites: W 3003, W 3007, W 3021.

3 points. Tu Th 10:35-11:50.

PHY G 4022y. The Physics of Atoms, Solids, Nuclei, and Particles.

Time-independent and time-dependent perturbation theory. Scattering theory. Selected phenomena from each of atomic physics, solid-state physics, and elementary particle physics will be described and then interpreted using quantum mechanical models.—R. Novick.

Prerequisite: G 4021.

3 points. Tu Th 10:35-11:50.

Astronomy-Physics ASP V 1900y. Seminar in Contemporary Physics and Astronomy.

Staff.

1 point. F 12:00-1:00.

ASTRONOMY COURSES

For description see the Columbia College Bulletin.

AST C 1103x. Earth, Moon and Planets.

D. Tytler.

4 points. Lecture Tu Th 2:40-3:55.

Laboratory hours to be arranged.

AST C 1104y. Stars, Galaxies and Cosmology.

E. Shaya.

4 points. Lecture Tu Th 2:40-3:55.

Laboratory hours to be arranged.

AST C 1203x. Introduction to Astrophysics I.

J. Gorkom.

3 points. Tu Th 11:00-12:15.

AST C 1204y. Introduction to Astrophysics II.

K. Prendergast.

3 points. Tu Th 11:00-12:15.

AST C 3101y. Stellar Structure and Evolution. N. Baker.

3 points. M W 1:10-2:25.

AST C 3102x. Planetary Dynamics and Physics of the Solar System.

J. Applegate.

3 points. M W 1:10-2:25.

AST C 3102y. Planetary Dynamics and Physics of the Solar System.

Not offered in 1988-89.

3 points.

AST C 3103x. Galaxies and the Interstellar Medium.

K. Prendergast.

Not offered in 1988-89.

3 points.

AST C 3104y. Cosmology.

Not offered in 1988-89.

3 points.

AST C 3997x, AST C 3998y. Seminar and Research Course.

Staff.

3 points. Hours to be arranged.

AST W 3301y. Black Holes.

Not offered in 1988-89.

3 points.

AST C 3302y. General Relativity, Cosmology, and Black Holes.

E. Spiegel.

3 points. M W 2:40-3:55.

AST W 4361y. Order and Disorder.

E. Spiegel.

Not offered in 1988-89.

3 points.

AST G 4001x. Astrophysics I.

N. Baker.

3 points. M W 2:40-3:55.

AST G 4002y. Astrophysics II.

J. Applegate.

3 points. M W 2:40-3:55.

Political Science

Office: 417 Lehman Hall

Telephone: 280-8422

Professors

Demetrios Caraley, (Janet H. Robb Professor and Chairman), Dennis Dalton, Peter Juviler, Richard M. Pious

Assistant Professors

Leslie Calman, Michael Delli Carpini, Ester Fuchs, Naomi Weinberger, Kathryn B. Yatrakis (Departmental Representative)

Instructors

Sanya Popovic, Judith Russell

Lecturers

Flora Davidson, Kathryn J. Rodgers, Tirza S. Wahrman

Other officers of the University offering courses listed below:

Professors

David A. Baldwin, Thomas P. Bernstein, Seweryn Bialer,³ Douglas Chalmers, Gerald L. Curtis, Lewis J. Edinger,² Julian H. Franklin, Charles V. Hamilton, Roger Hilsman, Robert Jervis, Mark Kesselman, Robert Legvold, Andrew Nathan, Joseph Rothschild, Warner R. Schilling, Alan F. Westin

Associate Professors

Lisa Anderson, Thomas Callaghy, Ethel Klein, Friedrich Kratochwil, Robert Shapiro, Jack Snyder

Assistant Professors

Robert Amdur,¹ Harvey Goldman, Istvan Hont,² Deborah Larson,¹ Helen Milner, Philip Oldenburg

¹Absent on leave, Autumn Term

²Absent on leave, Spring Term

³Absent on leave, 1988-89.

The purpose of the study of political science is to develop understanding of the basic political institutions and processes in human society. This understanding involves analysis and evaluation of political systems and public policies in the context of the challenges they face and the changes they undergo. The major is designed to equip the student to play an effective role as citizen in a democratic political order, to participate more actively in political life as public or party official, civil servant, lawyer, or political commentator, or to undertake graduate training in political science in preparation for a career in college teaching. Students interested in public service careers should inquire about the five-year joint degree program with the Columbia Graduate Program in Public Policy and Administration of the School of International and Public Affairs.

REQUIREMENTS FOR THE MAJOR

A student majoring in Political Science is required to take a minimum of nine semester courses from the department's listed offerings, including:

- A. Political Science BC 3001 *Dynamics of American Politics*
- B. One of the following courses:
 - Political Science V 3505 *Comparative Politics*
 - Political Science V 3611 *International Politics*
 - Political Science BC 3013, BC 3014 *Political Theory*
- C. Two colloquia or other courses having a research paper from among those courses designated by an asterisk (*); and
- D. Two semesters of research seminar for the thesis (see below).

In order to have the opportunity for independent specialized work in depth, and to explore more fully the techniques of scholarly investigation, *both majors and concentrators are required to write a senior essay* as part of the work for the required two-semester research seminar (either Political Science BC 3761-BC 3762, *Research Seminar*, or V 3711-V 3712, *Research Seminar in American Politics*).

Political Science

The department's requirements are flexibly drawn to permit a major, in consultation with her adviser, to plan an overall program that, while providing some background in various areas of government and politics, can place special emphasis on such particular interests as the American political system (including its urban subsystem), foreign political systems, international relations, or political theory.

A student majoring in Urban Affairs with a concentration in Political Science is required to take a minimum of six semester courses, including:

Political Science BC 3001	<i>Dynamics of American Politics</i>
Political Science V 3313	<i>American Urban Politics</i>
Two from the following courses:	
Political Science BC 3322	<i>The American Congress</i>
Political Science BC 3326	<i>Colloquium on Civil Rights and Liberties</i>
Political Science BC 3327	<i>Colloquium on the Content of American Politics</i>
Political Science BC 3535	<i>Colloquium-Workshop in Urban Administration and Management</i>
Political Science V 3306	<i>Political Economy of Cities</i>
Political Science G 8202	<i>Colloquium on Congress and Policymaking</i>

Two semesters of research seminar for the thesis.

REQUIREMENTS FOR THE MINOR

A student minoring in Political Science is required to take a minimum of five semester courses, including Political Science BC 3001.

COURSES OF INSTRUCTION

GENERAL COURSES

Courses listed under this heading may be taken without previous study of political science.

POS BC 3001x, POS BC 3001y. Dynamics of American Politics.

Examination of the dynamics of the American political system at the national level including political participation, elections, political parties and national political institutions: the Presidency, the Congress and the Judiciary.—Staff.

Sign-up sheets for sections are posted outside 408 Lehman.

3 points.

Credit is not granted for both this course and C 3305.

x: Section I M W 11:00-12:15. R. Pious.

Section II M W 2:40-3:55. E. Fuchs.

Section III Tu Th 10:35-11:50. M. Delli Carpini.
y: M W 11:00-12:15. R. Pious. S

POS V 3505x, POS V 3505y. Introduction to Comparative Politics.

An introduction to major issues and theories in comparative politics.

3 points.

x: Tu Th 10:35-11:50. L. Anderson.

y: Tu Th 10:35-11:50. P. Juviler. S

POS W 4311x. American Parties and Elections.

The changing role of political parties and elections in the American political system. The historical development of party conflict; the structure of party organization at the local and national levels; the roles of party and the media during presidential elections; who votes and why; and the future of American political parties.—E. Fuchs.

3 points. M W 11:00-12:15. S

POS BC 3007x. Modern Political Movements.

Dynamics of movement politics in the twentieth century. Factual and moral analysis; case studies of Bolshevism, Indian nationalism, Nazism, and the women's movement.—L. Calman.

3 points. Tu Th 10:35-11:50. S

POS V 3313y. American Urban Politics.

Patterns of government and politics in America's large cities and suburbs. Urban socioeconomic environment, influence of party leaders, local officials, social and economic notables, racial, ethnic and other interest groups, press, the general public, and federal and state governments; impact of urban government on ghetto and other urban problems.—K. Yatrakis.

3 points. M W 2:40-3:55. S

Political Science

POS V 3611x, POS V 3611y. International Politics.

Setting and dynamics of global politics; application of theories of international relations to selected historical and contemporary problems.

3 points.

x: Section I M W 1:10-2:25. N. Weinberger.

y: Section II Tu Th 6:10-7:25. F. Kratochwil.

y: Section III Tu Th 10:35-11:50. F. Gause. S

POS BC 3012y. The United Nations in International Politics.

Role of international organizations in world politics. Issues focused on include arms control and disarmament, nuclear proliferation, and human rights as well as international trade and multinational corporations. Experiences of the League of Nations, the United Nations, the European Community, and other contemporary international and regional organizations are considered.

Not offered in 1988-89.

3 points. *M W 2:40-3:55.*

POS BC 3013x, POS BC 3014y. Political Theory.

Major texts of political theory from Plato to the present. Emphasis on comparison of basic concepts such as those of human nature and the ideal society, freedom and authority, equality and leadership, methods of creating change.—D. Dalton.

Prerequisite: Freshman or sophomore standing.

Note: 3013x is a prerequisite for 3014y.

3 points.

x, y: Section I Tu Th 2:40-3:55.

***POS BC 3345y. Colloquium on Statistical Analysis of Politics and Policy.**

Use of the microcomputer, including Lotus spreadsheets, in analysis of problems in the political process and public policy; practical applications in statistical analysis.

Satisfies college-wide Quantitative Reasoning requirement. Colloquium credit for Political Science majors.

Prerequisite: BC 3001 or W 3305 and permission of the instructor.

4 points. *Tu Th 10:35-11:50.*

SPECIALIZED COURSES

AMERICAN GOVERNMENT AND POLITICS

POS V 3316x. The American Presidency.

Growth of presidential power, creation and use of the institutionalized presidency, presidential-congressional and presidential-bureaucratic relationships, and the presidency and the national security apparatus.—R. Pious.

Prerequisite: BC 3001 or the equivalent.

3 points. *M W 4:10-5:25.*

S

POS BC 3322y. The American Congress.

Dynamics, organization, and policymaking processes of the American Congress. Relationship of legislators to constituents, lobbyists, bureaucrats, the President, and one another.—M. Delli Carpini.

Prerequisite: BC 3001 or the equivalent.

3 points. *M W 2:40-3:55.*

S

POS BC 3335x. Mass Media and American Democracy.

An examination of the structure of the mass media in the United States and their impact on the political and social beliefs, opinions, and behaviors of both the mass public and political elites. Particular attention will be paid to the tension that forms between the potential for an informed citizenry and the potential for a manipulated public.—M. Delli Carpini.

Prerequisite: BC 3001 or the equivalent.

3 points. *Tu Th 2:40-3:55.*

POS BC 3325x. The Judicial Process.

Introduction to the American judicial system; origins and strategies of litigation, factors which influence the hearing of cases by the Supreme Court, and controversies over judicial review and the commerce clause.—Instructor to be announced.

Prerequisite: BC 3001 or a course in American history.

Not open to students who have taken W 3399.

3 points. *Not offered in 1988-89.*

S

***POS BC 3326y. Colloquium on Civil Rights and Liberties.**

The uses and limitations of the judicial process to protect individual rights and affect public policy. Readings, discussion, and reports on selected topics including libel and the press, criminal procedure, equal protection, and ethics in government.—Staff.

Prerequisite: BC 3001 or equivalent and permission of instructor.

4 points. *W 4:10-6:00.*

S

***POS BC 3333x. Colloquium on Policy Analysis.**

Theoretical aspects and practical applications of policy analysis. Topics include the policymaking process, and the roles and tools of policy analysis. Actual case studies will be used. Students will also simulate case studies for analytical purposes.

Prerequisite: BC 3001 or equivalent and permission of instructor.

Enrollment limited to 18 students.

4 points. *W 2:10-4:00.*

S

Political Science

POS W 3399x. The Supreme Court and American Politics.

Role of the judiciary and constitutional law in American politics; U.S. Supreme Court, civil liberties, civil rights, federalism, and economic and social regulations. Students write case studies of recent Supreme Court decisions.—A. Westin.

Prerequisite: BC 3001 and junior standing.

Not open to students who have taken BC 3325.

3 points. M W 11:00-12:15.

S

POS W 3400y. Law and Politics of Civil Liberties.

A survey of existing law on civil liberties and rights, followed by discussion of issues of democratic theory, the role of groups in bringing test cases, and the dynamics of civil liberties litigation and conflict, covering topics such as political surveillance, racial equality, church-state issues, consumer rights, women's rights, and other issues.—A. Westin.

Prerequisite: Open only to juniors and seniors who have had a course in American government or constitutional law. *Not open to students who have taken BC 3326.*

3 points. M W 11:00-12:15.

S

POS V 3328y. Women and American Politics.

Analysis of changes and continuities in the roles of women as they have been involved in and affected by American politics and public policy.—E. Klein.

Prerequisite: BC 3001, W 3305, or permission of the instructor.

3 points. Tu Th 2:40-3:55.

S

***POS BC 3327x. Colloquium on the Content of American Politics.**

Readings, discussions and reports on changing cleavages and policy issues in American national politics since the 1960s.—K. Yatrakis.

Prerequisite: BC 3001 or equivalent and permission of the instructor.

4 points. W 2:10-4:00.

S

***POS BC 3331y. Colloquium on American Political Decisionmaking.**

Readings on decisionmaking, policy analysis and the political setting of the administrative process. Students will simulate an Ad Hoc Cabinet Committee assigned to prepare a presidential program to deal with aspects of the foreign aid program involving hunger and malnutrition.—R. Pious.

Not offered in 1988-89.

4 points.

S

***Urban Affairs UAF BC 3535x. Colloquium in Urban Administration and Management.**

Processes of administration and management in urban organizations. Executive leadership, decisionmaking, bureaucracy, budgeting and personnel.—K. Yatrakis.

Prerequisite: BC 3001 or V 3313 or the equivalent.

Enrollment limited to ca. 20 students.

4 points. M 2:10-4:00.

Urban Affairs UAF 3537x. Workshop in Urban Administration and Management.

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internships of 8-10 hours per week.—K. Yatrakis.

Corequisite: Urban Affairs BC 3535.

2 points. Biweekly meeting to be arranged.

POS G 4238x. Public Opinion and Voting Behavior.

A survey of the theoretical and empirical literature on individual political behavior. The nature of measurement of political behavior and attitudes, the distribution of knowledge and attitudes, ideology, party identification, socialization, participation, presidential and congressional voting and other topics will be discussed.—R. Shapiro.

Prerequisite: Junior or senior standing and permission of the instructor.

Not offered in 1988-89.

3 points.

***POS G 8202y. Colloquium on Congress and Policymaking.**

Role of Congress in national policymaking. Influence of committees, party leaderships, staffs, the President, interest groups, and constituencies; case studies of congressional policymaking.—D. Caraley.

Prerequisites: BC 3001, junior standing and permission of the instructor.

Enrollment limited to 15 students.

3 points. *Not offered in 1988-89.*

FOREIGN GOVERNMENTS AND POLITICS

***POS BC 3220x. Colloquium on Communism and Revolutionary Change.**

Nature, causes and consequences of revolution; approaches to revolution of the major types of workers' and peasants' revolutionism.—S. Popovic.

Prerequisites: V 3505, BC 3007, or BC 3221, or the equivalent. *Permission of the instructor required.*

4 points. Tu 2:10-4:00.

Political Science

***POS BC 3221x. Colloquium on Politics and Human Rights in the U.S.S.R.**

Soviet conception of governing authority and human rights; the interaction of government and citizens.—P. Juviler.

Prerequisite: V 3505 or BC 3007, or Soviet politics or history. Admission by application only.

4 points. Th 2:10-4:00. S

POS BC 3422y. Social Democracy in Western Europe.

An examination of Western European politics with particular attention to social democratic movements. Among issues to be examined will be the place of Social Democratic parties in the West European party systems, their relations to Liberal and Communist parties as well as to trade unions, and the public policies these parties pursue when in power.—N. Fermon.

Prerequisite: V 3505 or the equivalent.

3 points. Tu Th 1:10-2:25.

***POS BC 3424y. Colloquium on Asian Politics.**

Comparative analysis of national experiences and political ideas and political development in India and China.—L. Calman.

Prerequisite: V 3505 or permission of the instructor.

Enrollment limited to 20 students.

Not offered in 1988-89.

4 points.

POS W 3517x. Political Processes and Systems in Contemporary East Central Europe.

The politics of the Communist states of East Central Europe: their vicissitudes during World War II; the Communist takeovers and consolidations of power during the era of the Cold War; the dialectics of Stalinism and Titoism (1949-54); the purges and "mature" Stalinism; the attenuation of Stalin's legacy by his Soviet heirs; the reassertion of East Central European nationalism and "domesticism" via the Polish October (1956), the Hungarian Revolution (1956), the Czechoslovak Spring (1968), the desatellizations of Romania and Albania (1960's and 70's) and the unresolved crisis of legitimacy in Poland and elsewhere (1980's); the pulls and pressures, attractions and repulsions of the Soviet Union, China, the U.S., and Western Europe on East Central Europe.—J. Rothschild.

3 points. Tu Th 9:10-10:25.

POS W 3502x. Political Change in the Third World.

Impact of the world market, multinational corporations, and colonialism on non-

Western societies. Political issues arising from social and economic changes; political choices facing peasants, intellectuals, and ethnic minorities; strategies to overcome underdevelopment, including revolution and reform, critical analysis of theories of modernization, dependency, and historical materialism.—T. Callaghy.

3 points. Tu Th 10:35-11:50. S

POS W 3018y. Authoritarianism and Democracy.

Types of regimes in comparative perspective.—P. K. Oldenburg.

3 points. Tu Th 2:40-3:55. S

POS W 3560x. Latin American Politics.

Political structures, conflict, and change in the region, including discussion of the politics in selected countries, patterns of regime change and the involvement of the United States.—D. Chalmers.

3 points. M W 11:00-12:15.

POS W 3522y. Communist Political Systems.

Comparative study of Marxist-Leninist states with emphasis on the Soviet Union and China plus some attention to other cases. Analysis of revolutions, processes of societal transformation, patterns of rule, as well as problems of adaptation and reform.—T. P. Bernstein.

3 points. M W 2:40-3:55. S

POS G 4472x. Japanese Politics.

Introduction to contemporary Japanese politics and major foreign policy issues; issues of concern in the analysis of Western democratic policies in the Japanese context.—G. Curtis.

Prerequisite: Comparative Politics.

3 points. Hours to be announced.

Italian Studies-Political Science ISPG 4415y. Social and Political Institutions in Italy Today.

Major Italian institutions; their operation in the Italian social and cultural structure.—F. Colombo.

3 points.

Th 4:10-6:00, and third hour for Italian-speaking students, to be arranged. S

POS G 4487y. The Dynamics of Soviet Politics.

Marxism-Leninism in Soviet politics: role of the Communist Party in Soviet government and society; problems of industrialization, stages of development and political change; balance of political forces and pressures in the Soviet state.—Instructor to be announced.

Prerequisite: Comparative Politics.

3 points. Tu 2:10-4:00.

Political Science

POS W 4842y. Conflicts and Conflict Resolution in the Middle East.

Comparative analysis of conflicts and efforts at conflict resolution in the Middle East, focusing on inter-Arab politics, the Iran-Iraq war, and the Arab-Israel conflict. Sources of conflict between states, the dynamics of intervention in civil strife, and the role of extraregional actors will be examined.—N. Weinberger.

Prerequisite: V 3505 or V 3611 or permission of the instructor.

3 points. M W 1:10-2:25.

POS W 4445x. Politics in the Middle East and North Africa.

A comparative analysis of political organizations, institutions, and groups in a predominantly Muslim region mostly comprising states that are newly sovereign.—G. Gause.

Prerequisite: Junior or senior standing and permission of the instructor.

3 points. Tu Th 6:10-7:25.

POS G 4471x. Chinese Politics.

Selected aspects of contemporary Chinese politics, including the causes and character of the Chinese revolution, the transformation worked in Chinese society by the revolutionary government, political conflict, and the goals of government policies and the problems of carrying them out.—T. Bernstein.

Prerequisite: Junior or senior standing and permission of the instructor.

3 points. W 4:10-6:00.

POS G 4420x. Politics in Advanced Capitalist Society: West Europe and the U.S.

Alternate approaches (including Marxist, post-Marxist, and corporatist) to understanding the political economy of advanced capitalism in West Europe and the United States. The relationship of liberal democracy and capitalist production. Historical and cross-national variations in ruling coalitions, state policies, and political conflicts. The crisis of the Keynesian welfare state and post-Keynesian developments.—M. Kesselmen.

3 points. Tu 11:00-12:50.

POS G 4496y. Contemporary African Politics.

Nation-building in Black Africa: African socialism, the one-party system, and military intervention in politics. African international relations: neocolonialism, Pan Africanism, neutralism, and nonalignment. The African revolution.—T. Callaghy.

Prerequisite: Junior or senior standing and permission of the instructor.

3 points. W 11:00-12:50.

POLITICAL THEORY

***POS BC 3416y. Colloquium on Personality and Politics.**

Readings, discussion, and research on the role of personality in shaping political behavior, with special attention to the impact of personality in political leaders.—F. Davidson. *Permission of the instructor required.*

Enrollment limited to 16 students. Application form must be submitted to the instructor at the end of Autumn term for acceptance into the course.

4 points. Tu 2:10-4:00.

S

***POS BC 3423x. Colloquium on Nonviolence.**

Nature and dynamics of nonviolent action especially when directed at gaining political and social change. Focus on Mahatma Gandhi's theory and practice of nonviolence in South Africa and India, 1906-1947. Comparison of this example with other instances of nonviolent action in twentieth century America and Europe.—D. Dalton.

Prerequisites: BC 3013x, BC 3013y, and BC 3007x.

4 points. W 2:10-4:00.

S

POS BC 3433y. Colloquium on Concepts of Political Theory.

The analysis of such central theoretical concepts in the great books of political theory as power, elitism, democracy, tyranny, liberty, justice, and force vs. morality. Throughout the course, these concepts will be related to the founding and operation of the American constitutional democracy.—D. Caraley.

Permission of the instructor required.

4 points. Th 2:10-4:00.

S

POS BC 3440y. Colloquium on Women in Western Political Thought.

This course will examine the treatment of women in major traditions of Western political thought. Questions of women's "nature," their role in public life and in the private sphere will be explored. Primary sources will include Plato, Aristotle, Rousseau, Locke, Marx, and Engels.—L. Calman.

Prerequisite: Permission of the instructor.

4 points. M 2:10-4:00.

POS W 4638x. Marxism.

Marx's social and political thought, revisionists and fundamental critics, and selected contemporary approaches to Marxist theory; Marx, Bernstein, Lenin, Sorel, Mannheim, Freud, Marcuse, Sartre, and others.—H. Goldman.

3 points. Tu Th 10:35-11:50.

S

Political Science

POS W 3411x. Foundations of Western Political Thought: From the Greek Polis to the Formation of the Modern State.

Leading political theorists in their historical contexts: Plato, Aristotle, Polybius, Cicero, St. Augustine, St. Thomas, Machiavelli, Luther, Calvin, the Monarchomachs, and Bodin.—J. H. Franklin.

3 points. Tu Th 10:35-11:50.

S

POS W 3412y. Modern Political Thought: From the Seventeenth Century to the Present.

Analysis and discussion of the argument of major political theories, and of the transformation of political theory in the 19th century. Topics include the theories of social contract, the character of liberalism and the role of property, the relation of freedom and equality in democratic society, the rise of capitalism and its analysis and critique. Among the authors considered are Hobbes, Locke, Rousseau, Burke, Tocqueville, Mill, Hegel, and Marx.—Instructor to be announced.

3 points. Hours to be arranged.

S

***POS W 3833x. Colloquium on Political Ideas.**

A study of the relationship between social theory and literature. Readings drawn principally from Nietzsche, Weber, and Mann.—H. Goldman.

Prerequisite: BC 3013, BC 3014 or equivalent, and permission of the instructor.

4 points. Tu 2:10-4:00.

INTERNATIONAL RELATIONS AND FOREIGN POLICY

***POS BC 3118y. Colloquium on Problems in International Politics.**

Readings, discussions, and presentations on selected problems in international politics. Topic for 1988-89 is Intervention in Civil Wars: Theories and cases from Indochina, Latin America, Africa, and the Middle East.—N. Weinberger.

Prerequisite: Course V 3611 and permission of the instructor.

4 points. Th 2:10-4:00.

S

POS BC 3410y. Colloquium on Human Rights and Foreign Policy.

Issues in the universalization of human rights; reflection on the possible place of human rights promotion in the foreign policies and relations of sovereign states, in particular the United States, and recent changes in this regard, in the face of human rights violations.—P. Juviler.

Prerequisites: Permission of the instructor; junior standing.

Enrollment is limited to 18 students.

Not offered in 1988-89.

4 points.

POS W 3612y. International Cooperation.

Economic, social and political aspects of international cooperation.—J. Ruggie.

Prerequisite: POS W 3611.

3 points. M W 11:00-12:15.

POS C 3655x American Strategies in World Politics.

Major revolutions in American foreign policy; World Wars I and II, and the response to nuclear weapons.—W. Schilling.

Prerequisite: Junior standing.

Not offered in 1988-89.

3 points.

S

POS W 3656y. The Politics of Policy-making in Defense and Foreign Affairs.

Political process by which foreign and defense policy is made in the United States, including the roles of the President, Congress, State Department, CIA, the military, the press, interest groups, the attentive public, and the electorate; conceptual models of the politics of policymaking.—R. Hilsman.

Prerequisite: BC 3001 or V 3611.

3 points. M 4:10-6:00.

Discussion hours to be arranged.

S

POS W 3630x. The Politics of International Economic Relations.

Introduction to the political and historical dimensions of the international economy. Political aspects of trade, monetary systems, foreign investment, aid, dependency, global interdependence.—D. Spiro.

3 points. Tu Th 2:40-3:55.

COURSES FOR MAJORS AND CONCENTRATORS ONLY

Political Science-Sociology PSS

V 3994x-PSS V 3995y. New York Area Undergraduate Research Program.

An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists.—E. Fuchs.

Prerequisite: Enrollment limited to 10-15 students.

Political Science

selected by application only to the instructor. Junior or senior standing is required. Participation is for two terms.

4 points. Tu 2:10-4:00.

POS G 4910x. Principles of Quantitative Political Research.

Introduction to statistical analysis and data processing. Principles of statistical inference and the logic of hypothesis testing.—R. Shapiro.

A written report is required.

3 points. Tu Th 10:35-11:50.

POS G 4911y. Analysis of Political Data.

Applications of multivariate statistical techniques to political data. Practical questions of research and data processing.—R. Shapiro.

Prerequisite: Course G 4910 or permission of the instructor. A written report is required.

3 points. Tu Th 10:35-11:50.

RESEARCH SEMINARS

Admission to particular sections of the research seminar is limited. During Spring preregistration students must apply for the section desired in the senior seminar.

POS V 3711x-POS V 3712y. Research Seminar in American Politics.

Discussions, conferences, and the writing of a senior essay on a topic, selected by each student, of American public policy and poli-

tics.—Staff.

4 points.

Section I Tu 4:10-6:00. D. Caraley.

Section II W 4:10-6:00. K. Yatrakis.

Section III x: Th 4:10-6:00. E. Klein.

y: Th 4:10-6:00. E. Klein.

Section IV x: Tu 4:10-6:00. R. Hilsman.

y: Th 4:10-6:00. R. Hilsman.

Section V Th 4:10-6:00. M. Delli Carpini.

POS BC 3761x-POS BC 3762y. Research Seminar.

Discussion and conferences on the researching and writing of the senior essay.—Staff.

4 points.

Section I Th 4:10-6:00. P. Juviler.

Section II Tu 4:10-6:00. D. Dalton.

Section III Th 4:10-6:00. L. Calman.

Section IV W 4:10-6:00. N. Weinberger

Section V Th 4:10-6:00. S. Popovic.

GRADUATE COURSES

Certain graduate courses given in the University are open to qualified majors with the consent of the department and the major adviser. These courses are described in the bulletins of the Graduate School of Arts and Sciences, the Graduate Program in Public Affairs and Administration, and School of International Affairs.



Psychology

Office: 415 Milbank Hall

Telephone: 280-2069

Professors

Peter Balsam, Lila Ghent Braine (Chair),¹ Rae Silver (Chair)²

Associate Professors

Robert Remez,³ Barbara S. Schmitter, Christina L. Williams

Adjunct Associate Professors

Jacqueline Fleming, Wendy McKenna, Marsha Levy-Warren, Thomas Perera

Assistant Professors

Lawrence Aber, Jan Rabinowitz, Carolin Showers, John Vitkus, Elizabeth Wiggins

Adjunct Assistant Professors

Howard Andrews, William Fifer, Robin Garfinkel, William Gerin, Mary Kelly, Christine Moon, Sandra F. Stingle

¹Absent on leave, Autumn Term

²Absent on leave, Spring Term

³Absent on leave, 1988-89

Psychology is the study of behavior and experience, and therefore of a diversity of phenomena, from love to aggression, from the first babblings of infants to creative intellectual behavior, from understanding sexual behavior to the mechanisms of taste. Faculty members in Psychology have a wide range of research interests, including social and cognitive development, memory, sexual and parental behavior, animal learning, health, and intimate violence.

Common to all areas of psychology is a concern with adequate and appropriate methodology. The student will be exposed, therefore, to many psychological facts and to the methods of their discovery through lecture, laboratory, field courses, and various other offerings.

Opportunities are available for supervised research, teaching, and field experiences. Independent study and the Senior Seminar involve participation in research with a faculty member. The Toddler Center and a course in Field Work in Psychological Services provide a different sort of first-hand contact with the study of psychology.

The department sponsors a Psychology Club.

Psychology as a major is a good preparation for many careers. Many majors enter graduate school in psychology, neurosciences, education and professional schools, including medical, law, and business schools. There is no set sequence for a major with a given career goal, but the department recommends a balance between courses that are directly preparatory and exposure to material the student may never encounter formally again.

Students should preregister for courses in April and November for the following semester. Preregistration information is available in Room 415 Milbank.

A laboratory fee of \$20 is charged for each laboratory course: BC 1105, BC 1108, BC 1117, BC 1127, BC 1130, BC 1136, and BC 1156.

Students interested in Biopsychology should consult page 90.

REQUIREMENTS FOR THE MAJOR

The student majoring in Psychology is exposed to the diversity of the discipline through the required core courses and the selection of appropriate electives.

Eight courses in psychology (of which two must be lab courses) and three courses in related disciplines are required for the major. Six of the eight required psychology courses must be taken at Barnard College. Statistics cannot be taken during the summer. Although there is no AP credit in psychology, students may be exempted from introductory psychology with a satisfactory score on the CLEP test.

Psychology

Psychology BC 1001

Introduction to Psychology (prerequisite for further psychology courses)

Psychology BC 1609

Statistics (preferably in the sophomore year)

One course chosen from:

Psychology BC 1105

Psychology of Learning

Psychology BC 1130 or BC 1132

Human Learning and Memory

One course chosen from:

Psychology BC 1125

Psychology of Personality

Psychology BC 1136 or BC 1138

Social Psychology

Psychology BC 3141

Abnormal Psychology

In choosing her four electives, a student should try to achieve a balance in her training by taking at least one course from each of the following categories:

Development, Social, Clinical: BC 1125, BC 1127 or BC 1129, BC 1136 or BC 1138, BC 3141, BC 3143, BC 3151, BC 3158, BC 3161, BC 3371, BC 3372, BC 3473

Methodology and Research: BC 1156, BC 3591-BC 3592, BC 3599, W 4107

Physiological, Perception, Learning: BC 1105, BC 1108 or BC 1110, BC 1117 or BC 1119, BC 1130 or BC 1132, BC 3154, BC 3160, BC 3164, BC 3169, BC 3375

A maximum of two of the following courses may count toward the major: BC 3465, BC 3466, BC 3591, BC 3592, BC 3498, and BC 3599.

The three required courses in related disciplines should be distributed as follows: a one-year laboratory course sequence in either astronomy, biology, chemistry, environmental science, geology, or physics; a course from one of the cognate disciplines: anthropology, linguistics, sociology, philosophy, economics, computer science.

The eight required psychology courses must be taken for a letter grade; the grade must be C— or better.

The major examination consists of either the Graduate Record Examination in Psychology or satisfactory completion of Psychology BC 3591-BC 3592, *Senior Research Seminar*.

When in doubt, the student should consult with her major adviser, whom she should select when she decides to major in psychology, and who will be her chief academic adviser. The student may select the appropriate adviser in consultation with the administrative assistant or chairman.

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor, including Psychology BC 1001, BC 1609 and one laboratory course. Two additional electives, excluding Psychology BC 3465-BC 3466, BC 3591-BC 3592, BC 3498, and BC 3599, are required. These electives may be selected from the Psychology Department course offerings. Three of the five psychology courses must be taken at Barnard.

COURSES OF INSTRUCTION

INTRODUCTORY COURSE

PSY BC 1001x, PSY BC 1001y. Introduction to Psychology.

Introduction to the chief facts, principles, and problems of human and animal behavior, through systematic study of a text, lectures,

exercises, reading in special fields, and brief participation in a current investigation. (An alternative to participation can be arranged at the student's request.)—Staff.

This course is prerequisite for all other Psychology courses. Enrollment is limited to 45 students per section.

3 points.

Psychology

- x: Section I M W F 10:00. Instructor to be announced.*
Section II M W F 11:00. Instructor to be announced.
Section III M W 1:10-2:25. Instructor to be announced.
Section IV Tu Th 9:10-10:25. Instructor to be announced.
Section V Tu Th 10:35-11:50. C. Williams.
Section VI Tu Th 1:10-2:25. T. Perera.
Section VII Tu Th 2:40-3:55. W. Gerin.
y: Section I M W F 11:00. Instructor to be announced.
Section II M W 2:40-3:55. W. McKenna.
Section III Tu Th 9:10-10:25. Instructor to be announced.
Section IV Tu Th 10:35-11:50. W. Gerin.
Section V Tu Th 1:10-2:25. Instructor to be announced.

LOWER LEVEL COURSES

PSY BC 1105x. Psychology of Learning.

Basic methods, results and theory in experimental analysis of behavior. Operant and classical conditioning, and application of these procedures to analysis of behavior in a variety of species, including humans. Laboratory consists primarily of experiments using rats as subjects.—Peter Balsam and assistants.
Prerequisite: BC 1001. Enrollment limited to 60 students. Preregistration.

4½ points.

Lecture Tu Th 10:35-11:50. Laboratory W Th F 1:00-4:00.

Laboratory fee \$20.

PSY BC 1108x. Perception.

Introduction to problems, methods, and research in perception. Discussion of psychological studies of seeing, hearing, touching, tasting, and smelling. In the laboratory, students conduct experiments and learn to report their findings.—Instructor to be announced.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 40 students.

Preregistration.

4½ points.

Lecture M W 11:00-12:15.

Laboratory M or Tu 2:00-5:00.

Laboratory fee \$20.

PSY BC 1110x. Perception.

Same as BC 1108, but without the laboratory.—Instructor to be announced.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 15 students.

3 points. M W 11:00-12:15.

PSY BC 1117y. Physiological Psychology.

An introduction to the physiological bases of behavior: organization, connections and functions of the nervous system; neural bases of sensory processing, motor control, feeding, drinking, sexual behavior, sleep, aggression, reward, learning and memory.—C. Williams and assistants.

Prerequisite: BC 1001. Enrollment limited to 40 students. Preregistration.

4½ points.

Lecture Tu Th 10:35-11:50.

Laboratory W 2:30-5:30 or Th 1:00-4:00.

Laboratory fee \$20.

PSY BC 1119y. Physiological Psychology.

Same as BC 1117y, but without laboratory.—C. Williams.

Prerequisite: BC 1001. Enrollment limited to 20 students.

3 points. M W 1:10-2:25.

PSY BC 1125x. Psychology of Personality.

Survey of the area, major theorists; research utilizing personality variables; implicit and explicit personality theories of various types of people; articulation of the dialectic between explanations as a function of personality and explanations as a function of situational determinants.—C. Showers.

Prerequisite: BC 1001 or permission of the instructor.

3 points. Tu Th 1:10-2:25.

PSY BC 1127x, PSY BC 1127y.

Developmental Psychology.

Cognitive, linguistic, perceptual, motor, social, affective, and personality development from infancy to adolescence. Laboratory offers an opportunity for direct contact with children; major areas of research at each level of development are covered.—C. Moon and assistants.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 48 students.

4½ points.

Lecture M W 1:10-2:25.

Laboratory M or Tu 2:30-5:30.

Laboratory fee \$20.

PSY BC 1129x, PSY BC 1129y.

Developmental Psychology.

Same as BC 1127, but without laboratory.—C. Moon.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 20 students.

3 points. M W 1:10-2:25.

Psychology

PSY BC 1130y. Human Learning and Memory.

Survey of contemporary theories of human memory with an emphasis on a comparison between structural and process models. Topics will include primary memory, secondary memory, levels of processing, organization and encoding specificity. Special topics will include eyewitness testimony, metamemory, development of memory, and the effects of alcohol and other drugs on memory. The laboratory consists of experiments related to these topics.—J. Rabinowitz.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 48 students.

Preregistration.

4½ points.

Lecture M W 11:00-12:15.

Laboratory M 2:30-5:30 or Tu 1:00-4:00.

Laboratory fee \$20.

PSY BC 1132y. Human Learning and Memory.

Same as BC 1130 but without laboratory.—J. Rabinowitz.

Prerequisite: BC 1001 or permission of the instructor.

3 points. M W 11:00-12:15.

PSY BC 1134x. Educational Psychology.

Major theories and issues in human psychological development fundamental to education. The course will examine the implications of psychological knowledge for use in classroom teaching. Students have the opportunity to observe elementary and secondary school classes.—M. Kelly.

Prerequisite: BC 1001 or permission of the instructor.

3 points. Tu Th 9:10-10:25.

PSY BC 1136y. Social Psychology.

Human behavior considered in terms of interpersonal activities; person perception, attitude change, interpersonal attraction, aggression, altruism, group dynamics, social exchange; contributions of laboratory and field research.—C. Showers and assistants.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 50 students.

Preregistration.

4½ points.

Lecture Tu Th 9:10-10:25.

Laboratory W or Th 1:00-4:00.

Laboratory fee \$20.

PSY BC 1138y. Social Psychology.

Same as BC 1136, but without laboratory.—C. Showers.

Prerequisite: BC 1001 or permission of the instructor. Enrollment limited to 25 students.

3 points. Tu Th 9:10-10:25.

PSY BC 1156x. Psychological Measurement.

In-depth treatment of measurement issues (reliability, validity, item analysis) followed by application of these constructs to psychological tests and measures. Critique and evaluation measures in the domains of intelligence, personality, environmental and clinical assessment. Lab involves student-conducted survey research on a social or health psychology topic (e.g., smoking, loneliness).—E. Wiggins.

Prerequisite: BC 1001.

4½ points.

Lecture Tu Th 10:35-11:50.

Laboratory Th 1:00-4:00.

Laboratory fee \$20.

PSY BC 1157x. Psychological Measurement.

Same as BC 1156x but without the laboratory.—E. Wiggins.

Prerequisite: BC 1011. Enrollment limited to 20 students.

3 points. Tu Th 10:35-11:50.

PSY BC 1609x, PSY BC 1609y. Statistics.

Introduction to statistics and its applications to psychological research. Basic theory, conceptual underpinnings, and common statistics. Recitation devoted to discussion of weekly problem assignments.

Prerequisite: BC 1001 or permission of the instructors. Enrollment limited to 35 students per section.

4 points.

x: Section I M W 1:10-2:25. R. Garfinkel.

Recitation Tu or W 10:00-12:00.

Section II Tu Th 2:40-3:55. J. Rabinowitz.

Recitation M 11:00-1:00 or Tu 11:00-1:00.

y: Section I M W 1:10-2:25. R. Garfinkel.

Recitation Tu or W 10:00-12:00.

Section II Tu Th 4:10-5:25. H. Andrews.

Recitation W 4:10-6:00.

MIDDLE LEVEL COURSES

PSY BC 3141x, PSY BC 3141y. Abnormal Psychology.

x: Introduction to deviant and maladaptive behaviors such as phobias, major depression, schizophrenia, eating disorders, and Alzheimer's disease, focusing on different theoretical approaches to assessment, diagnosis, treatment, and research. "Real-world" aspects of psychopathology and psychotherapy are emphasized through the study of case histories and research reports and visits to psychiatric institutions.—x: J. Vitkus.

Psychology

y: Introduction to the study of deviant and maladaptive behaviors such as childhood disorders, depression, schizophrenia and mental retardation, focusing on scientific, philosophical and socio-cultural issues in the study of abnormal behavior and the relationship between diagnosis and treatment strategy.—L. Aber.

Prerequisite: BC 1001 or permission of the instructor.

x: Tu Th 2:40-3:55.

y: Tu Th 10:35-11:50.

PSY BC 3151x. Organizational Psychology.

Introduction to behavior of individuals and small groups in work organizations. Recent theory and research emphasizing both content and research methodology. Motivation and performance, attitudes and job satisfaction, power, influence and authority, leadership, cooperation and conflict, decisionmaking, and communications.—Instructor to be announced.

Prerequisite: BC 1001. Enrollment limited to 45 students.

3 points. Tu Th 1:10-2:25.

PSY BC 3152y. Psychological Aspects of Human Sexuality.

A survey and critical evaluation of research investigating psychological, biological and social factors in human sexual behavior. Topics will include sexuality throughout the life span, sexual dysfunction and cultural attitudes towards sexuality.—W. McKenna.

Prerequisite: BC 1001. Enrollment limited to 30 students. Preference given to seniors. Preregistration.

3 points. M W 1:10-2:25.

PSY BC 3154x. Hormones and Reproductive Behavior.

Biological basis of parental and sexual behavior from a comparative perspective. Complex relations among genetic, hormonal, environmental, and experiential factors in mediating sexual, parental, emotional, and feeding behavior. Aspects of biology and physiology necessary to understand those behavioral processes are covered in class and are **not** prerequisites.—R. Silver.

Prerequisite: BC 1001 or Biology BC 1101-BC 1102.

Enrollment limited to 45 students.

Not offered in 1988-89.

3 points.

PSY BC 3158x. Human Motivation.

Empirical study of human motivation with emphasis on motives in fantasy, action and society. Surveys different approaches to the study of human motives and their scientific

status. Discusses the development of motives in childhood, their behavioral and societal manifestations. Particular emphasis is given to need for achievement, need for power, need for affiliation, fear of failure, fear of success.—J. Fleming.

Prerequisite: BC 1001.

Alternate years. Not offered in 1988-89.

3 points.

PSY BC 3160x. Cognitive Psychology.

Selected topics illustrating the methods, findings, and theories of contemporary cognitive psychology. Topics include attention, pattern recognition, imagery, categorization, problem solving, reasoning and language.—J. Rabinowitz.

Prerequisite: BC 1001. Enrollment limited to 20 students.

Alternate years.

3 points. Tu Th 2:40-3:55.

UPPER LEVEL COURSES

PSY BC 3161x. Introduction to the Psychotherapeutic Process.

Exploration of concepts intrinsic to the psychotherapeutic process: transference, countertransference, resistance, interpretation, defense analysis. Focus of assessment, choice of treatment, psychoanalysis/psychotherapy, major treatment modalities (e.g., behavioral, humanistic, interpersonal), the analytic attitude, and therapeutic change.—M. Levy-Warren.

Prerequisites: BC 1001, and any two of the following courses: Personality, Abnormal Psychology, Developmental Psychology, Human Motivation, or permission of instructor.

3 points. M W 1:10-2:25.

PSY BC 3164y. Perception and Language.

Psychological investigations of spoken communication from listener's perspective. Topics include perception of the sounds of speech and the apprehension of meaning from words and utterances; the perceptual basis for rhyme and rhythm in speech; and the natural history of vocal communication.—R. Remez.

Prerequisites: BC 1001 and one of the following: BC 1105, BC 1108, BC 1117, BC 1127, BC 1130 or equivalent. Enrollment limited to 20 students.

Alternate years. Not offered in 1988-89.

3 points.

PSY BC 3465x, BC 3466y. Field Work and Research Seminar: Barnard Toddler Center

The Barnard Toddler Center provides the focus for field work and research in applied developmental psychology, an amalgam of developmental, educational, and clinical

Psychology

psychology. Students assist one morning a week at the Center, make individual class presentations, carry out team research projects and participate in a 2-hour weekly seminar which integrates theory, research, and practice.—L. Aber.

Prerequisite: BC 1127 and permission of the instructor. Permission should be requested in the spring of the year preceding registration.

Enrollment limited to 12 students.

4 points. Tu 12:00-2:00.

PSY BC 3167y. History and Systems of Psychology.

Development of the discipline of psychology examined in the context of significant events occurring in other fields (philosophy, other sciences) and in society. Major schools of psychology: Structuralism, Functionalism, Behaviorism, Gestalt Psychology and Psychoanalytic Theory.—L. Braine.

Open to juniors and seniors who have had BC 1001 and two other courses in psychology, or permission of the instructor.

Alternate years. Offered in 1988-89.

3 points. Tu Th 2:40-3:55.

PSY BC 3169y. Developmental Psychobiology.

A discussion of the inherent and acquired factors in the organization of basic behavioral processes: mechanisms underlying anatomical and functional development of the nervous system, prenatal and postnatal environmental influences on behavior, development of perception and response mechanisms, and analyses of the development of motivated behavior (e.g., feeding, sex, learning).—C. Williams.

Prerequisites: BC 1001 and one other course in biology or psychology. Enrollment limited to 20 students.

Alternate years. Not offered in 1988-89.

3 points.

SEMINARS

PSY BC 3370x, PSY BC 3370y. Special Topics.

x: I. Psychological Analysis of Racism.

Psychological factors influencing the development and expression of racist attitudes and actions, with special references to black-white relations. Psychodynamic studies of hostility, anger, self-concept, mechanisms of defense, and other factors that produce and reduce racism. Each student will write an original research paper.—J. Fleming.

Prerequisite: BC 1001 and permission of the instructor. Enrollment limited to 20 students.

Alternate years. Offered in 1988-89.

4 points. W 4:10-6:00.

PSY BC 3371x. Psychology and Women.

Selected topics relevant to the scientific understanding of women's behavior and experience; sex differences in personality and abilities; development of sex differences; biological, psychodynamic and social learning theories; psychological aspects of special female experiences (e.g., menstruation, childbirth, abortion); women and therapy; women at work; and the science of psychology as it affects women.—W. McKenna.

Prerequisites: BC 1001 and two other psychology courses, and junior or senior standing.

Enrollment limited to ca. 20 students.

4 points. M 3:10-5:00.

PSY BC 3372y. Topics in Developmental Psychology.

Recent work selected from a broad range of areas: infant behavior, perceptual and cognitive development, family structures, and socialization practices.—L. Braine.

Prerequisites: BC 1001 and two other psychology courses. Enrollment limited to 20 students.

Not offered in 1988-89.

4 points.

PSY BC 3473y. Field Work and Seminar in Psychological Services and Counseling.

Supervised field work (minimum of 7 hours per week) applying psychological principles to work and treatment in clinical, educational, medical, and other institutional settings. Seminar discussions of theoretical approaches to clinical problems and case materials.—S. Stingle.

Prerequisites: 3 psychology courses and permission of the instructor. Permission of the instructor required during program planning the previous spring. Enrollment limited to 12 students; seniors given priority.

4 points. Tu 10:10-12:00 plus supervision to be arranged.

PSY BC 3374y. Theories of Learning.

Comparative study of major accounts of learning processes, including behavioral, cognitive, and biological theories. Evaluation of qualitative and quantitative models and their logical and empirical validity.—P. Balsam.

Prerequisite: BC 1105 and junior or senior standing. Enrollment limited to 15 students.

Alternate years. Not offered in 1988-89.

4 points.

PSY BC 3375y. Organization of Movement.

Selected topics pertaining to the control of action: information for determining movement; planning an act; motor systems; stabili-

Psychology

ties; locomotion; skill; hierarchies of control; perceptual influences on planning and execution of acts.—R. Remez.

Prerequisites: BC 1001 and one of the following: 1105, 1108, 1117, 1127, 1130, or 1136.

Enrollment limited to 20 students.

Not offered in 1988-89.

4 points.

PSY BC 3376y. Infant Development.

Analysis of human development during the first year of life. Perceptual, cognitive, sensory-motor, and social development will be examined, with emphasis on critical conditions involved in early learning and attachment. Other topics include prenatal development, "high-risk" infants, exploration and play, and language development.—W. Fifer.

Prerequisites: BC 1001 and BC 1127 or BC 1129.

Enrollment limited to 20 students.

4 points. Th 2:10-4:00.

PSY BC 3377x. The Psychology of Aging.

Discussion of the basic areas of adult behavior. Specific topics will include biological theories of aging with specific reference to physiological and neurological changes, an examination of intellectual and cognitive functioning, and discussion of personality changes and the social psychology of aging.—J. Rabinowitz.

Prerequisites: BC 1001 and three other psychology courses. *Enrollment limited to 25 students.*

Alternate years. Not offered in 1988-89.

4 points.

PSY BC 3378x. Females and Males: A Psychobiological Perspective.

Research in psychology and biology has shown that there are sex differences in brain and behavior of man and other animals. The developmental, neurological, hormonal, genetic, experiential and evolutionary bases of sex differences in reproductive behavior and cognitive function, and the implications of these differences will be critically examined.—C. Williams.

4 points. Tu 4:10-6:00.

PSY BC 3591x, PSY BC 3592y. Senior Research Seminar.

Discussion and conferences on a research project culminate in a senior thesis. Each project must be supervised by a member of the department. Successful completion of the seminar substitutes for the major examination.—P. Balsam.

Open to eight senior psychology majors who submit a research proposal which has been approved by the course instructor and the project supervisor.

Prerequisites: BC 1609, a minimum of five other psychology courses must be completed, and permission of the instructor.

4 points. Tu 3:10-5:00.

PSY BC 3498x. Individual Projects—Field Work.

Field work projects planned in consultation with the instructor.—S. Stingle.

Prerequisite: BC 3473 and permission of the instructor.

Not offered in 1988-89.

4 points.

PSY BC 3599x, PSY BC 3599y. Individual Projects.

Research projects planned in consultation with members of the department.—Staff.

Open to majors on written permission of the department member who will supervise the project.

4 points. Hours to be arranged.

PSY W 4107y. Applications of Experimental Psychology.

Actual and potential applications of basic research in many areas of psychology. Traditional approaches to clinical situations; alternative experimental approaches to therapy, institutional design, and social planning; clinical assessment, behavior modification, self-control, creativity, law, education, and the ethics of social control.—P. Balsam.

Prerequisite: Learning course and permission of the instructor. *Enrollment limited to 15 students.*

Offered every three years. Not offered in 1988-89.

3 points.

PSY W 4132y. Production and Perception of Language.

Review of theories and current research on the processes of speech perception. Topics include the acoustic theory of phonetic differentiation, peripheral transduction, auditory and phonetic analysis, word recognition, phrase formation, and the effects of context in perception and production. Special topics include language perception and production in the deaf, perception of metaphor, and automatic speech recognition.—R. Remez.

Prerequisites: Psychology W 1501, W 3180, BC 3164 or TP 4398.

Not offered in 1988-89.

3 points.

Quantitative Reasoning Program

Offices: 1203 Altschul and Academic Computer Center

Telephone: 280-2437, 8476

This program is supervised by the Quantitative Reasoning Committee:

Associate Professor of Mathematics

Ted Chinburg

Professor of Chemistry

Sally Chapman

Professor of Economics

Duncan Foley

Associate Professor of Biology

Paul Hertz (Director)

Instruction in the Quantitative Reasoning Program is provided by regular members of the Barnard and Columbia College Faculty.

Requirement

All entering students must take the Basic Math Skills test during orientation week. Students who fail the test must take QUR BC 1001, *Basic Math Skills*, before satisfying the QR requirement with one of the courses listed on pages 35-36.

All students must pass one course in which the major topics are mathematics, methods of empirical analysis using quantitative data, or symbolic manipulation to solve problems. The requirement may be fulfilled by passing a Quantitative Reasoning Course (described below), or one of the courses indicated on pages 35-36.

Courses on Quantitative Reasoning

These courses aim to introduce the student to mathematical concepts through the analysis of quantitative topics in other disciplines. This one-semester course is made up of 2 or 3 units, each lasting 4-6 weeks. Each unit is taught by a different professor, whose area of interest lies in a discipline within either the social or the natural sciences, or in the humanities. Students are introduced to the use of computers in QR courses.

Each unit will be graded separately, and each unit will contribute to the grade for the course. All units must be taken in a single semester in order to complete the course.

QUR BC 1001x, QUR BC 1001y. Basic Math Skills.

Hanna Sandler.

7 weeks. Offered once each semester.

1 point. Required as noted above. Open to other students only with permission of instructor.

Graded P/F only.

Section I M W 4:10-5:25.

Section II Tu Th 4:10-5:25.

QUR BC 1107x, QUR BC 1107y. Numerical Methods for Text Analysis.

J. Lad, S. Winter.

3 points.

x: M W 4:10-5:25. Sept. 14-Nov. 2.

y: M W 2:40-3:55. Oct. 20-Dec. 13.

A. Can we discern patterns that reveal the unique style of an author? Can we use statistics to discover whether two works have the same author? Can we evaluate writing style with numerical measures?

Students will apply numerical and statistical concepts to particular cases.

B. How do methods of secret writing (cryptography) protect communication against

eavesdroppers? How secure are such methods? Are there ways of "breaking" the secrecy of a code through analysis of encoded messages? Are any coding methods unbreakable?

Basic concepts of cryptography will be introduced, enabling students to practice designing, implementing, and analyzing secret communications systems with the aid of a computer.

QUR BC 1108x, QUR BC 1108y. Paradoxes and Prejudice in Judgment.

J. Dutta, C. Showers, G. Zettler.

3 points.

x: Tu Th 2:40-3:55.

y: M W 11:00-12:15.

To what extent are rational judgments possible? To what extent do people make judgments rationally?

A. Is it possible to solve all problems rationally? Can, for example, all numbers be computed? Topics will include issues of decidability, naturally-occurring paradoxes, the work of Godel and Turing, and examples of universal computing machines.

Quantitative Reasoning Program

B. To choose a college, should you rely on the advice of a close friend or the established reputation of the school? To match you with a job, should an employer consider your grade in a relevant college course or your cumulative GPA? Discussions will focus on resolving the discrepancies between our everyday judgments and those that follow from statistical principles.

QUR BC 1109x, QUR BC 1109y. Decision Theory and Democracy.

C. Conrad, J. Rabinowitz.

3 points.

x: M W 2:40-3:55.

y: Tu Th 10:35-11:50.

A. How can democracies ensure that the will of the people is followed? Can majority rule yield consistent decisions? Does the primary system choose the best candidate? Can systems of voting be devised to improve upon majority rule? The biases of various voting schemes will be evaluated.

B. How much confidence can be placed in pollsters' results? Do polls present a fair representation of citizens' preferences? How well do polls predict the outcomes of elections? The statistical techniques of evaluating sampling error will be discussed.



Religion

Office: 219 Milbank Hall

Telephone: 280-2597

Professors

John Stratton Hawley (Chairman), Alan Segal

Assistant Professors

Holland Hendrix, Vivian-Lee Nyitray, Brian Smith

Visiting Assistant Professor

Celia Deutsch

Other officers of the University offering courses listed below:

Professors

Ainslie T. Embree (History), Gillian Lindt, Wayne L. Proudfoot, Robert Somerville, Alex Wayman, David Weiss-Halivni

Associate Professor

Peter Awn

Assistant Professors

Randall Balmer, Scott Davis, Jay Harris, Paul B. Watt

Visiting Professors

Ewert Cousins, Morton Smith

Adjunct Assistant Professor

Michael Stoller

Lecturer

David Lelyveld

Approaches to the study of religion are as diverse as the world's religious traditions themselves, perhaps because the religious experience we seek to understand is inseparable from the rich diversity of human life and culture. The student of religion encounters men and women as they explore the very boundaries of their perceptions of the real. It is the challenge provoked by this encounter that makes our common involvement in the academic study of religion so fascinating, even as it leads us to scrutinize and question the boundaries of our own world view.

The inquiry into religious theory, practice, and institutional life demands a variety of methodological tools in addition to an integrating framework. The program in religion sponsored by Barnard College and Columbia College offers a unique context for this interdisciplinary study through the superb resources they command. The areas of expertise of the religion faculty (philosophy of religion, sociology and anthropology of religion, history of Eastern and Western religious traditions, comparative religion) provide the prospective student with a clear picture of the range of specialization available.

Moreover, the larger University community provides training in a broad spectrum of disciplines related to the study of religion: the social sciences, humanities, arts, and the professions. Specialized area studies programs and institutes—Middle East, Southern Asian, etc.—explore in depth the linguistic, literary, and sociocultural milieux of particular Eastern or Western religious traditions. Barnard and Columbia offer intensive training in the languages of the major religious traditions of the world: Arabic, Chinese, Greek, Hebrew, Japanese, Latin, Persian, Sanskrit, Tibetan, and so forth. Students are encouraged to take full advantage of these and other opportunities available throughout the University.

The Jewish Theological Seminary of America and Union Theological Seminary are located within two blocks of Barnard; students are encouraged to use the resources they offer.

All courses, except those limited to majors, satisfy the College's distribution requirements.

REQUIREMENTS FOR THE MAJOR

Program of study:

To be planned with the departmental representative, taking into account the educational aims of the student.

Courses:

For the major, 10 courses are required. Students must include among the 10 courses V 1040—*Introduction to Theory and Methods in the Study of Religion* and at least one of the introductory courses (V 1001—*Major Topics in the Study of Religion*; V 1101—*Introduction to the Study of Western Religion*; or V 1102—*Introduction to the Study of Eastern Religion*), and two courses in the traditions (six points). At the levels of the introductory and traditions courses, students are expected to gain exposure to both Eastern and Western religions. The majors' colloquium, to be taken in the senior year, and 3 additional points in seminars, colloquia, or guided reading are also required. Courses in which a grade of D has been received may not be used to satisfy requirements for the major.

It is strongly recommended that majors, especially those considering graduate work in religion, pursue the study of the language of one religious tradition (e.g., Arabic, Chinese, Greek, Hebrew, Latin, Sanskrit) in addition to fulfilling the College language requirement.

Senior essay:

Majors are required to prepare a senior essay or project in consultation with a member of the department. The essay may be written in connection with V 3901-V 3902—*Guided Reading and Research*. The department takes the senior essay into consideration when making recommendations to the Faculty Committee on Honors.

REQUIREMENTS FOR THE MINOR

The minor consists of 5 courses, including:

One of the introductory courses (i.e., Courses V 1001, V 1040, V 1101, V 1102);

Two courses selected from the Traditions; and

One course taken as a seminar, colloquium, or guided reading.

The Department also cooperates with related programs such as Ancient Studies, Oriental Studies, Jewish Studies, and with other departments, to arrange combined, double, joint, and special majors. These arrangements are made in consultation with the chairman.

COURSES OF INSTRUCTION

Courses offered by other departments and the graduate program, but integral to the study of religion are listed here only by title. For a complete description, please consult the appropriate bulletin.

INTRODUCTORY COURSES

REL V 1001x, REL V1001y. Major Topics in the Study of Religion.

Introduction to theory and practice of religion, East and West: e.g., myth and ritual, reason and revelation, law and community, mysticism and religious organization.

3 points.

x: Tu Th 10:35-11:50. J. Hawley.

y: M W F 10:00-10:50. V-L. Nyitray.

REL V 1040x, REL V1040y. Theories and Methods in the Study of Religion.

An introduction to the problems and methods of the study of religion, focusing on classical theorists who concentrated on the nature and origins of religion and the problems of comparison in works on "primitive" religions. Readings from Levy-Bruhl, Durkheim, Freud, Jung, Lévi-Strauss, Evans-Pritchard, Malinowski, and Eliade.

3 points.

H

x: Tu Th 9:10-10:25. S. Davis.

y: Tu Th 10:35-11:50. B. Smith.

REL V 1101x, REL V1101y. Introduction to the Study of Western Religion.

The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the West.

3 points.

H

x: Tu Th 9:10-10:25. R. Balmer.

y: Tu Th 4:10-5:25. C. Deutsch.

Religion

REL V 1102x, REL V 1102y. Introduction to the Study of Eastern Religion.

The phenomenology of religious experience and the historical forms of religious life. The presuppositions, data, and documents of the religions of the East.

3 points.

H

x: M W 11:00-12:15. V.-L. Nyitray.

y: M W 11:00-12:15. B. Smith.

THE TRADITIONS

REL V 2600y. Hinduism.

Origin and development of central themes of traditional Hinduism; basic religious literature and its relation to Indian culture. Readings include original sources in translation.—J. Hawley.

3 points. Tu Th 2:40-3:55.

H

REL V 2607x. Buddhism.

A historical introduction to Buddhist thought, scriptures, practices and institutions. Attention given to Theravada, Mahayana, and Tantric Buddhism in India, as well as selected non-Indian forms.—P. Watt.

3 points. M W 2:40-3:55.

H

REL V 2610x. Christianity.

Survey of Christianity from its beginnings through the Reformation.—M. Stoller.

3 points. M W 11:00-12:15.

H

REL V 2620x. Judaism.

Historical overview of Jewish belief and practice as these have crystalized and changed over the centuries. Special attention to ritual and worship, forms of religious literature, central concepts, religious leadership and institutions, and Israel among nations.—J. Harris.

3 points. Tu Th 4:10-5:25.

H

Islamic-Religion ISR V 2630y. Islam.

Survey of Islamic institutions, ideas, and spirituality, their origin and development in formative and classical periods and their continued evolution in a variety of cultural settings.—P. Awn.

3 points. M W 4:10-5:25.

H

REL V 2630x. African Religious Traditions.

Not offered in 1988-89.

3 points.

INTERMEDIATE COURSES

EASTERN RELIGIONS

REL V 3602x. Classical Texts in Eastern Religion.

Not offered in 1988-89.

3 points.

REL V 3603x. Taoism.

Historical introduction to Chinese Taosim;

development of thought and literature (i.e., the *Tao Te Ching* and the *Chuang Tzu*); meditation and alchemy; translations of doctrine into folk belief and ritual; examination of contemporary study and practice.—V.-L. Nyitray.

3 points. Tu Th 2:40-3:55.

H

REL V 3613x. Japanese Religious Tradition.

A study of the development of the Japanese religious tradition in the pre-modern period. Attention given to the thought and practices of Shinto, Buddhism nad Confucianism, the interaction among these religions in Japanese history and the first Japanese encounter with Christianity.—P. Watt.

3 points. Tu Th 10:35-11:50.

H

REL V 3640y. Chinese Religious Tradition.

Development of the Three Teachings of Confucianism, Taoism, and Buddhism; folk eclecticism; the contemporary situation in Chinese culture areas. Readings drawn from primary texts, poetry, popular prose.—V.-L. Nyitray.

3 points. M W 2:40-3:55.

H

Indic-Religion W 4301y. Hindu and Buddhist Tantrism.

Not offered in 1988-89.

3 points.

H

Indic-Religion INR W 4335x. History and Doctrine of Indian Buddhism.

Not offered in 1988-89.

3 points.

H

Indic-Religion INR W 4340x. The Vedic Tradition.

Survey of the chief features of the four Vedas, the Brahmanas, and the Upanishads of India; the Vedic sacrifice, the opponents of Vedism, and the beginning of Hinduism.—A. Wayman.

3 points. W 11:00-12:50.

H

Indic-Religion INR W 4454y. Indian Philosophy.

Historical survey of Indian philosophy, including Vedic philosophical fragments, the six traditional schools, heterodox system, and aesthetic theory.—A. Wayman.

3 points. W 11:00-12:50.

H

Iranian Religion IRR W 4703x-W 4704y. Religions and Philosophies of Ancient Iran.

Not offered in 1988-89.

3 points.

Oriental Studies-Religion OSR W 4399x-

W 4400y. Colloquium on Major Texts of the Oriental Traditions in Religion, Ethics, Social Thought, and Literature.

Readings in translation. Autumn Term: Koran, Islamic philosophy and theology, Ibn

Religion

Khaldun, Sufi poetry, the *Upanishads*, Buddhist sutras, *Bhagavad Gita*, Sankara, Indian epics and drama; Spring Term: *Analects* of Confucius, Lao Tzu, Mencius, *Lotus Sutra*, Zen texts, *Dream of the Red Chamber*, *Tale of Genji*, and Nō plays. Philosophical and religious issues and their characteristic expression in diverse cultural traditions through a variety of literary forms.—W. T. de Bary, P. Anderer, J. Russell, and staff.
Knowledge of the original language is not required.
 3 points. *M 4:10-6:00.* H

WESTERN RELIGIONS

Judaism

REL V 3201x. Introduction to the Hebrew Bible.
 Introduction to the literature of ancient Israel against the background of the ancient Near East.—A. Segal.
 3 points. *Tu Th 10:35-11:50.* H

REL V 3210y. Judaism During the Time of Jesus.
 An introduction to the Hellenistic period of Jewish history with emphasis on sectarian movements and the emergence of rabbinic Judaism and Christianity as the two dominant religious movements of the West.—A. Segal.
 3 points. *Tu Th 10:35-11:50.* H

REL V 3214y. Introduction to Talmudic and Geonic Literature.
Not offered in 1988-89.
 3 points. H

REL V 3218x. The Concept of Covenant in the Bible.
Not offered in 1988-89.
 3 points. H

REL V 3303x. Judaism in the European Middle Ages and the Renaissance.
Not offered in 1988-89.
 3 points. H

REL V 3305x. Judaism in the Modern Western World.
Not offered in 1988-89.
 3 points. H

REL V 3310x. Peshat and Drash in the Jewish Tradition.
Not offered in 1988-89.
 3 points. H

REL V 3320y. Introduction to Early Rabbinic Literature.
Not offered in 1988-89.
 3 points. H

REL V 3330y. The Beginnings of Jewish Mysticism.
Not offered in 1988-89.
 3 points. H

REL V 3315y. Halakha and Aggadah.
 This course will attempt to gain a better understanding of the differences between Halakha (the legal portion of the Talmud) and Aggadah (the more legal portion) with respect to both content and form. It will concentrate on selections from the Talmud and Midrash that bear relevance to the intrinsic nature of these two basic genres of Rabbinic literature.—D. Weiss-Halivni.
 3 points. *M 2:40-3:55.* H

REL V 3333y. Introduction to Jewish Mysticism.
Not offered in 1988-89.
 4 points. H

REL V 3338y. Jewish Ethics.
Not offered in 1988-89.
 3 points. H

REL V 3340y. Contemporary Jewish Ethics.
Not offered in 1988-89.
 3 points. H

REL V 3345y. Studies in Rabbinic Religion.
Not offered in 1988-89.
 3 points. H

REL V 3360x. Jewish Liturgy.
 A survey of Jewish liturgy from the Bible to modern times, with occasional forays into Dead Sea prayer. Philosophy and theology of prayer will also be considered and whenever possible, the social message will be emphasized.—D. Weiss-Halivni.
 3 points. *M W 2:40-3:55.* H

REL V 3540y. Modes of Jewish Learning.
Not offered in 1988-89.
 3 points. H

REL G 4302x. Religion and Society in the Period of the Mishnah and Talmud.
Not offered in 1988-89.
 3 points. H

REL W 4310x. Talmudic and Geonic Literature.
Not offered in 1988-89.
 3 points. H

REL W 4312x. Modern Philosophies of Judaism.
Not offered in 1988-89.
 3 points. H

REL W 4320y. Encounters between Modern Philosophy and Judaism.
 Analysis of the principal challenges to faith in the Modern West—including such figures

Religion

as Spinoza, Kant, and Nietzsche—followed by analysis of Jewish responses by thinkers such as Krochmal, Rosenzweig, Buber, and Soloveitchik. Background in history of Judaism required.—J. Harris.
3 points. *M W 11:00-12:15.*

REL G 4360x. Talmudic Literature.

Not offered in 1988-89.

3 points.

H

REL W 4415x. Philo and Jewish Cosmopolitanism.

Not offered in 1988-89.

3 points.

REL W 4306x. Josephus.

Not offered in 1988-89.

3 points.

H

REL W 4530x. Introduction to Rabbinic Thought.

Not offered in 1988-89.

3 points.

H

Christianity

REL V 3202x. Introduction to the New Testament.

Introduction, by critical methods, to the religious history of the Christian movement in the New Testament period.—H. Hendrix.

3 points. *M W F 10:00-10:50.*

H

REL V 3240y. Graeco-Roman Religion.

Survey of religions of Rome and the Hellenistic East from the late 4th c. B.C.E. to early 4th c. C.E. with special attention to selected local religious phenomena.—H. Hendrix.

3 points. *M W 1:10-2:25.*

H

REL V 3402y. Early Christianity.

Not offered in 1988-89.

3 points.

H

REL V 3404y. Eastern Christianity.

Not offered in 1988-89.

3 points.

History-Religion HIR V 3405y. Medieval Ecclesiastical History: 500-1150.

Not offered in 1988-89.

3 points.

H

REL V 3406y. Medieval Ecclesiastical History: 900-1400.

Not offered in 1988-89.

3 points.

H

REL V 3408x. Catholic Theology since Vatican II.

Development of Catholic theology after Vatican II, in its historical context; Rahner, Kung, Metz, Lonergan, Teilhard, Panikkar, liberation theology; the church and the world, infallibility, theological method, political theology, hope and the future. Christian ecu-

menicism and world religions.—E. Cousins.
3 points. *Tu Th 6:10-7:25.*

H

REL V 3409x. Luther and the Radical Reformation: Piety and Politics.

Not offered in 1988-89.

3 points.

H

REL V 3410x. History of Religious Thought in the West. Jesus: Early Controversies, Recent Interpretations.

Prerequisite: Course V 3202 or the equivalent.

Not offered in 1988-89.

3 points.

H

REL V 3412y. Gnosticism.

Investigations of the gnostic gospels and other secret writings, discovered in 1945 in Egypt. These texts, denounced and destroyed as "heretical" by leaders of the early Christian Church, will be explored in terms of their historical, literary, and political content.—H. Hendrix.

3 points. *Tu Th 2:40-3:55.*

H

REL W 4017x. Magic in Greek and Roman History.

Not offered in 1988-89.

3 points.

H

REL W 4200y. Jesus.

Not offered in 1988-89.

3 points.

H

REL W 4250x. The Magical Gems of the Graeco-Roman World.

An account of the different types of magical gems of the Graeco-Roman world, with attention to their uses, social background, iconography, and relations to other magical material.—M. Smith.

3 points. *M W 2:40-3:55.*

REL W 4400y. Introduction to Medieval Religious Thought.

This course is designed as an introduction to medieval religious thought through reading in the primary texts. Authors treated will include Augustine, Boethius, Anselm, Averroes and Aquinas.—S. Davis.

3 points. *W 6:10-8:00.*

REL W 4440y. Paul.

Not offered in 1988-89.

3 points.

H

REL W 4820y. Possession: Demonic and Divine.

This course will look briefly at the overall distribution of possession and the evidence for it from Greek and Biblical material, and will then study in detail the role of possession in early Christianity, especially in the Gospels and in Paul.—M. Smith.

3 points. *Tu Th 2:40-3:55.*

Religion

Islam

REL V 3001x. Introduction Major Topics in Asian Civilizations.

An interdisciplinary and topical approach to the major issues and phases in the development of Asian civilizations and their role in the contemporary world.—P. Awn and A. Embree.

4 points. Tu Th 10:35-11:50. H

REL V 3635x. History of Sufism.

History of the Islamic mystical tradition from its origins in the eighth century through its classical and institutional phases in the twelfth century and following, concluding with an evaluation of the role of Sufism in the modern Islamic world.—P. Awn.

3 points. M W 4:10-5:25. H

REL W 4300x. Islam in India.

The course will examine what it has meant to be Muslim in South Asia from the seventh century C.E. to the present, with special attention to the relations of Islam to the dominant non-Muslim civilization of the subcontinent.—D. Lelyveld.

3 points. T Th 9:10-10:25. H

REL G 4610y. Islamic Religion.

Not offered in 1988-89.

3 points. H

Islamic-Religion ISR W 4452x. Islamic Law.

Not offered in 1988-89.

3 points. H

Islamic-Religion ISR W 4702y. Islamic Sectarianism.

Not offered in 1988-89.

3 points. H

REL W 4720y. Introduction to Islamic Philosophy.

P. Walker.

Not offered in 1988-89.

3 points. H

RELIGION, CULTURE AND SOCIETY

REL V 3407x. Mysticism.

Not offered in 1988-89.

3 points. H

REL V 3500x. Studies in Religion and Culture: 16th and 17th Centuries.

Not offered in 1988-89.

3 points. H

REL V 3501y. 18th and 19th Century Religious Thought.

Relation between religion and culture; theories of religious development (personal, social, cultural). Hume, Edwards, Lessing, Rousseau, Kant, Hegel, Schleiermacher, Coleridge, Bushnell, Emerson, and others.—W. Proudfoot.

3 points. Tu Th 1:10-2:25. H

REL V 3502x, REL V 3503y. The History of Religion in America.

A survey of American religion from colonization to the present, with an emphasis on the ways religion has shaped American history, culture, and identity. V 3502x: from colonization to the Civil War. V 3503y: from the Civil War to the present.—R. Balmer.

3 points. x: Tu Th 2:40-3:55.

y: M W 2:40-3:55. H

REL V 3513x. Philosophy of Religion.

Introduction to classical and contemporary issues, including those raised by the comparative study of religion.—W. Proudfoot.

3 points. T Th 1:10-2:25. H

REL V 3700y. Women and Religion.

A survey of feminine images and women's roles in selected Eastern and Western religious traditions; re-emergence of Goddess religion and wicca; the challenge of modern feminism.—V.-L. Nyitray.

3 points. Tu Th 1:10-2:25. H

REL V 3702y. Religious Ethics: War and Peace in Jewish and Christian Thought.

Jewish and Christian attitudes toward war and peace; survey of classical traditions (holy war, pacifism, just war); newer elements in the discussion; utopianism, revolutionary violence, and militant non-violence.—S. Davis.

3 points. Tu Th 6:10-7:25. H

REL V 3704y. Religion and the State.

Not offered in 1988-89.

3 points. H

REL V 3705x. Problems of Authority in Religion.

Not offered in 1988-89.

3 points. H

REL V 3745x. Love and Community: Foundations of Christian Ethics.

Not offered in 1988-89.

3 points. H

REL V 3720x. Sociology of Religion.

Not offered in 1988-89.

3 points. H

REL V 3740x. Religious Ethics in the Western Tradition.

Not offered in 1988-89.

3 points. H

REL V 3725x. The World of Myth.

Not offered in 1988-89.

3 points. H

REL V 3735x. Religious Ritual.

The nature of ritual: symbolism and the sacred; forms of regular worship, annual festivals, rites of passage, including history,

Religion

symbolism, present-day performances; materials from Judaism, Christianity, Hinduism, Islam, and archaic religions.—B. Smith.
3 points. *M W 1:10-2:25.* H

REL V 3760y. American Indian Religions.

Not offered in 1988-89.

3 points. H

REL V 3780y. Religions in Racially Stratified Societies.

Not offered in 1988-89.

3 points. H

REL W 4420y. Krishna.

Not offered in 1988-89.

3 points. H

REL G 4703x. Philosophy of Religion in America.

Not offered in 1988-89.

3 points. H

REL G 4451x. Humanism and Religion.

Not offered in 1988-89.

3 points. H

REL W 4710x. Marx, Nietzsche, Freud.

An analysis of the principal writings on the nature of religion and dynamics of religious belief according to three of the most influential atheistic thinkers of our time.—B. Smith.
4 points. *Tu 11:00-12:50, with an additional hour for undergraduates to be arranged.* H

Anthropology ANT V 3042x. The Anthropology of Religion.

Not offered in 1988-89.

3 points. S

Anthropology ANT G 4114. Religion in an Anthropological Perspective.

Not offered in 1988-89.

3 points. S

SEMINARS AND READING COURSES

Students must obtain permission of the instructor.

REL V 3800x. Majors' Colloquium.

Critical issues in the modern study of religion.—H. Hendrix.

Required for all senior majors.

4 points. *W 4:10-7:00.*

REL V 3803x. Seminars in Religious Thought.

I. Images and Conceptions of Good and Evil.

Not offered in 1988-89.

4 points. H

III. Gods and Goddesses of the Hindu Tradition.

Not offered in 1988-89.

4 points. H

IV. Kierkegaard.

Not offered in 1988-89.

4 points. H

VI. Gender Roles in the Hebrew Bible.

Not offered in 1988-89.

4 points. H

X. Religion and Philosophy in Islam: The Question of Reconcilability.

Not offered in 1988-89.

4 points. H

REL V 3804y. Seminars in Religious Thought.

V. Religious Responses to Suffering and Death.

Not offered in 1988-89.

4 points. H

XI. Continuity and Change in Indian Religions.

Not offered in 1988-89.

4 points. H

XIII. The Letters of Paul.

Study of Paul's letters as sources for his mission and theological views and as evidence for developments in early Christianity. Interpretations of Paul in Christian documents of the 1st and 2nd centuries.—H. Hendrix and A. Segal.

4 points. *W 4:10-6:00.* H

XIV. Religion and Imperialism.

Not offered in 1988-89.

4 points. H

XVI. The Meaning of Ritual in Judaism.

Not offered in 1988-89.

4 points. H

XVII. West African Religious Experience.

Not offered in 1988-89.

4 points. H

XVIII. Early Christian Self-definition: The Gospel of Matthew.

Not offered in 1988-89.

4 points. H

Religion

- XIX. Afro-American Religious History.**
R. Balmer.
Not offered in 1988-89.
4 points. *H*
- XX. The Philosophical Foundations of Classical Judaism.**
Not offered in 1988-89.
4 points. *H*
- XXI. Jewish Civil Law.**
Not offered in 1988-89.
4 points. *H*
- XXII. Religious Ethics: Friendship, Justice and the Good Life.**
Not offered in 1988-89.
4 points. *H*
- XXIII. Religious Biography.**
Not offered in 1988-89.
4 points. *H*
- XXV. Anselm of Canterbury.**
A close reading of selected treatises of St. Anselm in their historical context, with attention to subsequent interpretations of Anselm's arguments.—W. Proudfoot and R. Somerville.
4-points. M 2:10-4:00. *H*

History-Religion HIR V 3820y.
Religion and Society in Modern India.
Selected topics illustrating the mutual involvement of religion and society in India since the sixteenth century: Hindu devotional movements, Hindu reform movements, Islamic self-definition, religious minorities, recent trends.—J. Hawley and A. T. Embree.
4 points. Th 11:00-12:50.

REL V 3901x, REL V 3902y.
Guided Reading and Research.
A program of study designed to give outstanding majors an opportunity to pursue independently a subject of their choosing. A written essay is required of students taking this program.—Staff.
3 points.
Consultation periods to be arranged with adviser. *H*

GRADUATE COURSES
Other courses of possible interest to students, which are open to qualified undergraduates with the instructor's permission, are described in the bulletin of the Graduate School of Arts and Sciences.

Russian

Office: 226 Milbank Hall

Telephone: 280-5417

Professors

Richard F. Gustafson,¹ Marina Astman (Acting Chair)

Assistant Professor

Catharine Nepomnyashchy

Associates

Anatol K. Sapronow, Marianna Sapronow

Other officers of the University offering courses in Russian:

Professors

Robert L. Belknap, William E. Harkins, Robert A. Maguire

Assistant Professors

Frank Miller, Cathy Popkin, Irina Reyfman

Lecturers

David Andrews, Alla Arsenian, Dina Dukach

¹Absent on leave, 1988-89

The Russian Department at Barnard offers a program designed to help the student obtain reasonable fluency in the spoken and written language, a reading command of Russian adequate for interpreting texts of some difficulty, and a general knowledge of Russian literature and culture, especially of the nineteenth and twentieth centuries. The department insists upon a strong foundation in the language, because this best prepares students for future graduate study in literature, history, economics, or political science, as well as for careers in government, business, journalism, or international law.

Foreign Language Requirement for the Degree: all students must take a placement examination before entrance. This examination tests the student's knowledge of grammar, her comprehension of written and spoken Russian, and her ability in free composition. Students receiving a sufficiently high grade will automatically fulfill the requirement. All others must complete Russian V 1202, *Intermediate Course*, or any course beyond that level. Students whose native language is Russian should consult with the department chairman.

The Russian Club attends Russian movies, operas, and church services, and visits Russian restaurants and areas of the city where Russian is spoken.

REQUIREMENTS FOR THE MAJOR

Students must have completed two years of college Russian before entering the program. Prospective majors or minors should consult with either Professor Gustafson or Professor Astman as early as possible.

A total of 11 courses are required for the major:

Usually taken in the second year:

Russian V 1220

Russian V 1221

Nineteenth-Century Russian Literature

Twentieth-Century Russian Literature

Usually taken in the third year:

Russian V 3331-V 3332

Russian V 3333-V 3334

Advanced Course

Introduction to Russian Literature

Usually taken in the fourth year:

Russian V 3443-V 3444

Russian V 3595

Russian Syntax and Style

Seminar

Two electives in literature.

Independent study with any of the faculty at Barnard and the Department of Slavic Languages and Literatures at Columbia University can be arranged and study in the Soviet Union is possible as part of the major.

REQUIREMENTS FOR THE MINOR

A total of five courses beyond the second year of Russian are required for the minor. No courses in translation count toward the minor.

COURSES OF INSTRUCTION

LANGUAGE COURSES

RUS V 1101x-RUS V 1102y. Elementary Course.

Grammar, reading, composition, and conversation.

Required: Course V 1501-V 1502. All students will need cassette-tape playback capability for homework assignments.

No credit is given for V 1101 unless V 1102 is satisfactorily completed.

4 points.

Section I M Tu W Th F 9:00.

Instructor to be announced.

Section II M Tu W Th F 10:00.

Instructor to be announced.

Section III M Tu W Th F 10:00.

Instructor to be announced.

Section IV M Tu W Th F 11:00.

Instructor to be announced.

Section V M Tu W Th F 11:00.

Instructor to be announced.

Section VI M Tu W Th F 12:00.

Instructor to be announced.

Section VII M Tu W Th F 1:10.

Section VIII M Tu W Th F 1:10.

Section IX M Tu W Th 6:10-7:25.

Instructor to be announced.

RUS V 1501x-RUS V 1502y. Elementary Grammar Lecture.

Required weekly grammar lecture for Course V 1101-V 1102.

Th 12:00 or Th 2:30.

RUS V 1201x-RUS V 1202y. Intermediate Course.

Reading, composition, grammar review.

Prerequisite: Course V 1102 or the equivalent.

Oral practice is required.

4 points.

Section I M Tu W Th F 9:00.

Instructor to be announced.

Section II M Tu W Th F 10:00.

Instructor to be announced.

Section III M Tu W Th F 11:00.

Instructor to be announced.

Section IV M Tu W Th F 12:00.

Instructor to be announced.

Section V M Tu W Th F 12:00.

Instructor to be announced.

Section VI M Tu W Th F 1:10.

Instructor to be announced.

RUS V 3331x, RUS V 3332y. Advanced Course.

Emphasis on conversation and composition; reading and discussion of selected nineteenth- and twentieth-century texts; lectures, papers, and oral reports. Conducted entirely in Russian.—A. Arsenian, D. Dukach.

Prerequisite: Course V 1202 or the equivalent.

Oral practice is required.

4 points.

Section I M Tu W Th F 9:00.

Instructor to be announced.

Section II M Tu W Th F 10:00.

Instructor to be announced.

Section III M Tu W Th F 11:00.

Instructor to be announced.

Section IV M Tu W Th F 12:00.

Instructor to be announced.

RUS V 3441x, RUS V 3442y.

Russian Conversation and Composition.

Selected twentieth-century texts including fiction and non-fiction provide a context for discussion of contemporary issues; lectures, reports, and compositions. Conducted entirely in Russian.—Instructor to be announced.

Prerequisite: Three years of college Russian or permission of the instructor. The second term may be taken without the first.

Not offered in 1988-89.

3 points.

RUS V 3443x, RUS V 3444y. Russian Syntax and Style.

Autumn Term: Systematic study of problems in Russian syntax: written exercises, translation into Russian, composition, and oral reports; Spring Term: Discussion of styles and levels of language, including word usage and idiomatic expressions: written exercises, written and oral analysis of texts, composition, and oral reports. Conducted entirely in Russian.—A. Arsenian, D. Dukach.

Prerequisite: Three years of college Russian or permission of the instructor. The second term may be taken without the first.

4 points.

Section I M Tu W Th F 12:00.

Instructor to be announced.

Section II M Tu W Th F 1:10.

Instructor to be announced.

Russian

RUS V 3451x-RUS V 3452y. Understanding Soviet Media.

Analysis and discussion of current events as described by Soviet television and newspapers. Acquisition and development of Russian lexicon, and interpretation of Soviet journalistic technique. Conducted entirely in Russian.—Instructor to be announced.

Prerequisite: Three years of college Russian or permission of the instructor.

3 points. M W F 10:00.

RUS W 4432x. Contrastive Phonetics and Grammar of Russian and English.

Comparative phonetic, intonational, and morphological structures of Russian and English, with special attention to typical problems for American speakers of Russian.—F. Miller and Staff.

Prerequisite: Four years of college Russian or permission of the instructor.

3 points. Tu Th 1:10-2:25, and two hours to be arranged.

RUS W 4433y. Specific Problems in Mastering Russian.

The Russian verb (basic stem system, aspect, locomotion); prefixes; temporal, spatial, and causal relationships; word order; word formation.—F. Miller and staff.

Prerequisite: Four years of college Russian or permission of the instructor.

3 points. Tu Th 1:10-2:25, and two hours to be arranged.

RUS W 4434x-RUS W 4435y. Advanced Composition: The Writing of Expository Prose.

Practice in the varieties of critical writing. Development of vocabulary and syntactic structures appropriate for abstract discourse. Conducted entirely in Russian.—M. Astman.

Prerequisite: Four years of college Russian or permission of the instructor.

3 points. M W 11:00-12:15.

LITERATURE COURSES

RUS V 3333x-RUS V 3334y. Introduction to Russian Literature.

A close study in the original of representative works of Russian literature from Pushkin to Solzhenitsyn.—I. Reyfman.

Prerequisite: Grade of B- or better in RUS V 1202 or permission of the instructor. For non-native speakers of Russian.

3 points. M W F 1:10.

H

RUS W 4040y. Masterpieces of Russian Literature: Nineteenth Century.

A close study in the original of representative

works by Pushkin, Lermontov, Gogol, Turgenyev, Ostrovsky, Tolstoy, Dostoevsky, Leskov, and Chekhov.—Irina Reyfman.

Prerequisite: Native or near-native knowledge of Russian or permission of the instructor.

3 points. M W F 12:00-12:50.

H

RUS V 3461y. Pushkin.

Pushkin's narrative, dramatic, and lyrical verse in the original. Conducted mainly in Russian. Examinations in English.—I. Reyfman.

Prerequisite: RUS V 3334 or permission of the instructor.

Not offered in 1988-89.

3 points.

H

RUS V 3462x. Gogol.

The major works of Gogol, in the original. Class discussion conducted in English.—R. Maguire.

Prerequisite: RUS V 3334 or permission of the instructor.

Not offered in 1988-89.

3 points.

H

RUS V 3463y. Tolstoy.

A close reading, in the original, of major shorter fiction. Class discussion conducted in English.—R. Gustafson.

Prerequisite: RUS V 3334 or permission of the instructor. Not offered regularly.

Not offered in 1988-89.

3 points.

H

RUS V 3464y. Dostoevsky.

One major novel, in the original, with emphasis on linguistic and literary analysis.—R. Belknap.

Prerequisite: RUS V 3334 or permission of the instructor. Not offered regularly.

3 points. M W F 11:00-11:50.

H

RUS V 3465y. Russian Poetry in the Nineteenth and Twentieth Centuries.

Selected texts from representative lyric poets, including Tiutchev, Fet, Blok, and others; metrics, formal analysis of style and structure, and relationships to literary and philosophical movements.—M. Astman.

Prerequisite: RUS V 3334 or permission of the instructor.

Not offered in 1988-89.

3 points.

H

RUS V 3467x. Twentieth-Century Prose Writers.

Two or three of the most important twentieth-century writers, in the original.—C. Nepomnyashchy.

Prerequisite: RUS V 3334 or permission of the instructor. Not offered regularly.

3 points. M W F 11:00-11:50.

H

Russian

RUS V 3595x. Seminar.

Topic: The growth of Russian national self-awareness. Class reports culminating in a critical paper.—M. Astman.

Prerequisite: Major status or permission of the instructor.

4 points. W 2:10-4:00.

RUS V 3596y. Individual Research.

Supervised individual research culminating in a critical paper.—Staff.

Open to senior majors, and permission of the instructor is required.

4 points. Hours to be arranged.

RUSSIAN LITERATURE IN TRANSLATION

RUS V 1220x. Nineteenth-Century Prose.

The development of prose forms from Pushkin to Chekhov, including works by Lermontov, Gogol, Turgenev, Dostoevsky, and Tolstoy.—W. Harkins.

A knowledge of Russian is not required.

3 points. Tu Th 1:10-2:25.

H

RUS V 1221y. Twentieth-Century Prose.

Course of Russian prose fiction from symbolism to the present; including works by Bunin, Gorky, Bely, Zamyatin, Babel, Zoshchenko, Olesha, Bulgakov, Platonov, Nabokov, Pasternak, Solzhenitsyn, and Trifunov.—C. Nepomnyashchy.

A knowledge of Russian is not required.

3 points. Tu Th 1:10-2:25.

RUS V 1222y. Tolstoy and Dostoevsky.

Major works of the two writers.—R. Belknap.

A knowledge of Russian is not required.

3 points. M W 9:10-10:25.

RUS V 1224y. Introduction to Russian Culture.

Principal currents of Russian thought and artistic expression with emphasis on elements that appear to be characteristically Russian.—M. Flier.

A knowledge of Russian is not required.

3 points. Tu Th 10:35-11:50.

RUS V 1225y. Russian Women—Myth and Reality.

Literary and historical records studied chronologically with focus on women's social position, their literary image, and their contribution to culture. Special attention to the Soviet period.—Marina Astman.

A knowledge of Russian is not required.

Not offered in 1988-89.

3 points.

Religion-Russian RER G 4006x. Modern Russian Religious Thought.

Concepts of God, man, nature, and history; Chaadaev, Khomyakov, Solovyov, Fyodorov, Berdyaev, Shestov, Florensky, Bulgakov, Lossky, Frank and others.—R. Gustafson.

A knowledge of Russian is not required.

Not offered in 1988-89.

3 points.

H



Sociology

Office: 410E Milbank Hall

Telephone: 280-3039, 3577

Professor
Mirra Komarovsky,¹

Adjunct Professor
Theresa Rogers

Lecturer
Nathalie Friedman

Other officers of the University offering courses listed below:

Professors
Allen Barton, Ronald Burt, Jonathan Cole, Herbert Gans, Eugene Litwak, Alan Silver, Seymour Spilerman, Harriet Zuckerman

Assistant Professors
Eric Hirsch, Andrew Walder, Hiroshi Ishida, Mark Migruchi

¹Emeritus and Special Lecturer

Sociology introduces students to the scientific study of society. The basic problems common to all human societies and the varied institutional solutions to these problems make up one large area of sociological interest; hence the sociological study of the family, social class, economic and political institutions, education, science, etc. The impact on individual behavior of ethnic, racial, religious, and sexual categorizations, rural and urban differences, bureaucratic organizations and small groups, and the mass media are also of sociological interest. So is the relationship between social structure, culture, and personality. Sociology is concerned not only with the normal functioning of social institutions but also with social change and with social disorganization. In studying these subjects, materials about American society are given primary emphasis. Comparative materials from other societies, preliterate and more highly developed, are also extensively used. Finally, sociology seeks to acquaint students with its methods of investigation, from which students learn important facts about scientific method in general.

There are no special admissions requirements or procedures. Students (majors and non-majors) are encouraged to consult with members of the department regarding their choice and sequence of courses. Combined and double majors may be arranged. In addition, the Columbia department offers a wide variety of sociology courses which are open to interested Barnard students.

REQUIREMENTS FOR THE MAJOR

The major prepares students for graduate work in sociology as well as in other disciplines; for professional schools (law, business, social work, journalism, urban planning), and for all occupations requiring general knowledge of society and social interaction as well as basic skills of social research.

A minimum of **ten** courses is required for the major, including

Sociology BC 1001, BC 1002	<i>Introduction to Sociology</i>
Sociology V 3100	<i>Introduction to Social Theory</i>
Sociology V 1205	<i>Evaluation of Evidence</i>
Sociology V 3212	<i>Methods of Social Research</i>
	<i>(both no later than the junior year)</i>
Sociology BC 3087-BC 3088	<i>Individual Projects for Seniors</i>

and at least three other courses selected in consultation with the major adviser. Sociology V 3100, B 1205, and V 3212 should be taken, if possible, in the sophomore year and *no later than the junior year*.

There is no major examination. To graduate, a student must complete, to the satisfaction of her instructor in Sociology, BC 3087-BC 3088, a long paper involving some form of sociological research and analysis.

Sociology

REQUIREMENTS FOR THE MINOR

Five courses are required for the minor in Sociology, including Sociology BC 1001, BC 1002, and three courses to be selected in consultation with the Sociology adviser.

COURSES OF INSTRUCTION

SOC BC 1001x. Introductory Sociology, I.

Introduction to the sociological perspective on human behavior; major theoretical orientations, research methods, and policy uses. Application of basic sociological concepts to the study of love and death. Process of social learning in childhood and adulthood; sex role differences; agents of socialization; family, education, mass media, workplace.—N. Friedman.
3 points. M W 2:40-3:55. S

SOC BC 1002y. Introductory Sociology, II.

General introduction to sociological analysis continued. Impact of small groups and formal organizations on individual behavior, selected problems of social deviance and social control, stratification, and social change.—N. Friedman.

Prerequisite: BC 1001 or permission of the instructor.

3 points. M W 2:40-3:55. S

SOC V 1005x. Medical Care in Twentieth Century America.

An institutional and historical analysis of the critical changes that have influenced the organization and content of medical services today—the reform of medical education, the rise of specialization, the role of the hospital, the place accorded public health, the impact of third-party payers and for-profit facilities.—T. Rogers.

Offered in alternate years. Not offered in 1988-89.
3 points.

SOC V 1205x. Evaluation of Evidence.

A nontechnical introduction to alternative strategies by which social science data are transformed into evidence for theoretical arguments. Discussion of the logic and procedures of social science research and standards for the critical evaluation of that research; the discussion is based on a careful reading and analysis of significant studies exemplifying the use of different kinds of social science data and methods (field observations, historical archives, surveys, and experiments).

3 points. Section I. Tu Th 2:40-3:55. J. H. White.
Section II. Tu Th 4:10-5:25. R. Burt.

One introductory course in sociology suggested for all 3000-level courses.

SOC BC 3087x-SOC BC 3088y. Individual Projects for Seniors.

The instructor will supervise the writing of long papers involving some form of sociological research and analysis.—Staff.

Required of all senior majors.

4 points. W 4:10-6:00.

SOC V 3013x. Women, Health and Health Care.

Analysis of changing perspectives on women's health status and their roles in the health sector. Topics include women's mental and physical health, contraception, pregnancy, childbirth, morbidity, and mortality examined in the context of social science theories and evidence.—T. Rogers.

Permission of instructor required. Enrollment limited to 16 students.

4 points. Tu 4:10-6:00.

SOC V 3100y. Introduction to Social Theory.

Development of theories of society in the 19th and early 20th century. Detailed examination of the works of the major founders of sociology: Marx, Weber, and Durkheim, as well as a look at other theorists. Topics include the relationship between the individual and society, the nature of class and class struggle, and morality and purpose in social action.—G. Roth.

3 points. M W 4:10-5:25. S

SOC V 3101x. Contemporary Social Theory.

Major developments in social theory in the 20th century with special focus on symbolic interactionism, structuralism, and critical theory. Theorists to be discussed include Goffman, G. H. Mead, Lévi-Strauss, Althusser, Freud, and Habermas.—Instructor to be announced.

3 points. Tu Th 10:35-11:50. S

SOC V 3209y. Social Class and Social Mobility.

Consideration of the contemporary U.S. class structure. Discussion of barriers to mobility for minorities, women, and the poor.—E. Hirsch.

3 points. Tu Th 1:10-2:25. S

SOC W 3210y. Comparative Sociology of Race and Ethnicity.

Theories of racial and ethnic structures. Polarization or deescalation of conflict in divided societies. Obstacles to and consequences of social mobility. Ideology and consciousness.

3 points. *Not offered in 1988-89.* S

Sociology

SOC V 3212y. Methods of Social Research.

Introduction to elementary data analysis. Definition and measurement of variables; testing of hypotheses; interpretation of findings. Students use the computer to perform a simple analysis of a data set.—M. Mizruchi.

Prerequisite: Sociology V1205x.

3 points. M W 2:40-3:55.

One hour laboratory per week.

SOC V 3215y. American Society and Politics.

Development of political behavior in the United States in relation to social change, using historical data on voting and elites along with survey data for the last forty years. Bases of cleavage in mass and elite political behavior (class, ethnicity, region, etc.); role of social movements and third parties; reasons for failure of socialist and fascist movements in comparison with European experience; current trends in ideology and political behavior.—A. Barton.

3 points. Tu Th 2:40-3:55.

S

SOC W 3220y. Bureaucracy.

Brief overview of theories about the operations and problems of different kinds of organization. Analyses of such organizations as government agencies, factories, and academic institutions. Discussion of research on the formal structures of organizations, technology, personnel qualifications, and professionalization.—Instructor to be announced.

3 points. Hours to be arranged.

SOC 3221x. Social Disorganization, Crime, and Deviance.

Major theoretical approaches to crime and deviance, and an analysis of major research studies.—R. Read.

3 points. M W 4:10-5:25.

SOC V 3225y. Sociology of Education.

The social organization of education in the United States and its effects. Examines schools as agents of socialization: the contribution of education to social equality and inequality; schools as formal and informal organizations; teachers and students; and the politics of education including case studies of desegregation, decentralization, and public versus private schooling.—H. Zuckerman.

3 points. Tu Th 1:10-2:25.

SOC V 3228y. Sociology of Medicine.

An analysis of illness and its management in contemporary society. Topics include social definitions of health and illness, with emphasis on mental illness; the structure of the "sick" role; social factors in the etiology and distribution of illness; social organization of

the medical profession and of the hospital; problems and prospects of health delivery systems.—T. Rogers.

3 points. M W 2:40-3:55.

S

SOC W 3231x. Social Networks.

How network concepts explain a variety of social phenomena in American life. The use of networks in obtaining jobs, resolving marital problems, adapting to medical innovation, and structuring scientific achievement among academic elites, etc. A critical, non-mathematical review of social network theory.—R. S. Burt.

Not offered in 1988-89.

3 points.

S

SOC W 3237x. Sociology of Personal Relations.

Ideals and institutions of personal relations in the Western cultural tradition. The influence of social structure and change on ideas of trust, loyalty, sincerity, and intimacy—and their opposites—in times past and modern society. Readings drawn from literature, history, and sociological theory and research.—A. Silver.

3 points. Not offered in 1988-89.

S

SOC W 3250x. Marxist Social Thought.

A critical survey of the ideas of Marx and Engels about the development of capitalism, class conflict and revolution, and of subsequent Marxist ideas designed to account for the survival and continued evolution of capitalism, and the outbreak of revolution in underdeveloped countries. The course is designed to leave students with a coherent overview that allows them to make informed critical judgments about various paths of the Marxist tradition.

3 points. Not offered in 1988-89.

S

SOC V 3265y. Minorities and Ethnic Groups in American Life.

Role of racial and ethnic communities in modern American society, with emphasis on the distinctive cultural, political, and occupational patterns, as well as their tendencies to intermarry, assimilate, and conflict. Groups such as the Jewish, Italian, Irish, Puerto Rican, and Blacks will be studied.—E. Litwak.

3 points. M W 4:10-5:25.

S

SOC V 3303y. Female and Male. A Sociological Perspective.

Economic, demographic, and cultural changes modifying the traditional conceptions of masculinity and femininity; stresses in female-male relationships at various stages of the life cycle and in the family, occupational world, and other institutional settings;

Sociology

class and race differences in social roles of the sexes; social policies leading to the alleviation of current problems.—M. Komarovsky.
Enrollment limited to 35 students. Sign-up sheet, 317 Milbank Hall.

3 points. M W 12:30-1:45. S

SOC W 3324x. Urban Sociology.

Focus on theoretical approaches to urban sociology, the historical development of U.S. cities, the importance of economic and political processes in causing urban problems, and urban protest movements as a response to these trends.—E. Hirsch.

3 points. Tu Th 1:10-2:25. S

SOC W 3415. Sociology of News and Journalism.

The roles of the national news media in American life. Economic, organizational, political and ideological factors in the reporting and selecting of news. Objectivity, news values, censorship and other issues of news policy. The effects of the news on people and politics. Journalism as a profession.—H. J. Gans.

Not offered in 1988-89.

3 points. S

SOC W 3443y. The Sociology of Corporations and Markets.

A sociological analysis of market competition, and the management of competition by corporate bureaucracies. Corporations and other economic agencies as social organizations.—Instructor to be announced.

Hours to be arranged.

3 points. S

SOC V 3555y. Sociology of Family Institutions.

An examination of major theoretical frameworks and empirical research concerning the family. Analysis of the contemporary industrial family, with considerable attention to historical and cross-cultural materials. Some topics are: courtship and mate selection; sex roles and sexuality; alternative family structures; parenthood and the changing status of children; the impact of class, ethnicity and race on family life; social-policy and the future of the family.—Instructor to be announced.

3 points. M W 1:10-2:25.

SOC W 3620x. The Sociology of Law and Legal Systems.

Detailed examination of social forces and traditions that help shape the law. Current social controversies as seen in legal decision-making, including: race and sex discrimination; capital punishment; affirmative action; health risks in the workplace; privacy; school desegregation and busing; business regulation and concentration. The historical and current uses and abuses of social science evidence and methods in legal cases. Theoretical issues of equity, fairness, deterrence, risk assessment, linked to scientific evidence. Emphasis on landmark constitutional cases; readings include cases and materials as well as social science studies.

3 points. Not offered in 1988-89.

S

SOC W 3666x. Political Sociology.

Sociological approaches to the study of such topics as power, ideology, continuity and change, capital accumulation and distribution, and political legitimation. Special focus on the development of modern welfare states in comparative perspective.

3 points. Not offered in 1988-89.

S

SOC W 3680x. Sociology of Work and Occupation.

Problems of mobility, alienation, reward, and occupational satisfaction are systematically treated through reference to theoretical and empirical works. Attention is given to the structure of careers in contemporary American society and to race and sex differences in attainment.—S. Spilerman.

3 points. Tu Th 4:10-5:25.

S

4000-level courses are open to juniors and seniors.

SOC G 4018x. Sex Roles and Society.

The impact of biology, psychology, and society on sex-role differentiation and the consequences of sex-typing for the individual and society. Major theoretical perspectives and significant recent interdisciplinary research. Topics include socialization; the family; death, divorce, singlehood; deviance, health, illness; race, class, age, stratification; sexuality; social policy.—V. Zelizer.

3 points. W 2:10-4:00.

S

Spanish

Office: 208 Milbank Hall

Telephone: 280-2061, 8312

Professors

Alfred MacAdam, Mirella Servodidio (Chairman), Marcia L. Welles

Assistant Professors

Alicia Ramos, Perla Rozencvaig, Valentín Soto Borges

Associates

Vilma Bornemann, Luz Castaños

Lecturers

James Crapotta, Flora Schiminovich

The Spanish major trains the student to express herself fluently in both oral and written Spanish. It provides her with an intellectual grasp of both the literature and culture of Spain and Spanish America.

Foreign Language Requirement for the Degree: Freshman with prior training in Spanish who wish to satisfy Barnard's foreign language requirement in Spanish will be placed in the appropriate language course either on the basis of their CEEB score or the pre-registration placement test administered by the Spanish Department. Students scoring 4 or above on the placement test will be exempted. All others, except students whose native language is Spanish, must complete BC 1204. Native-speakers of Spanish will take BC 3006. Transfer students should consult the departmental chairman.

The Spanish Club facilitates joint faculty-student projects. The Club sponsors discussion sessions, films and lectures by writers, artists, and visiting scholars. The Spanish Club has traditionally been active in the production of classic and contemporary Spanish language drama, a means whereby faculty and students create a link between Barnard and the New York Hispanic communities.

REQUIREMENTS FOR THE MAJOR

Interested students should consult members of the department as early as possible in order to create a course of study suited to their particular interests. The Spanish Department also provides guidance for students interested in the Latin American or Spanish subdivisions of the Foreign Area Studies major. The Spanish Department actively encourages students to study abroad and may be consulted about these programs.

The following ten courses are required for the major and should be taken in sequential order:

Spanish BC 3013

Spanish BC 3015

Spanish BC 3017

Spanish BC 3018

Spanish BC 3020

Spanish BC 3023

Spanish BC 3025, BC 3026

Spanish BC 3031, BC 3032

The Culture of Spain

Spanish-American Culture

Spanish Literature of the Middle

Ages and Early Renaissance

Literature of the Golden Age

Don Quijote

Nineteenth-Century Spanish

Literature

Contemporary Spanish Literature I and II

Latin American Literature

In order to broaden her approach to Hispanic culture, a major should inform herself about related cultures. Such departments as Anthropology, Art History, Classics, French, History, Political Science, Economics, and Religion offer courses that enhance the Spanish major. Students should consult the department about these subjects.

The Major Examination, a three-hour written examination on Spanish literature and culture and a three-hour written examination on Spanish American literature and culture, is normally taken in the student's final semester at Barnard. This test is conducted in Spanish.

REQUIREMENTS FOR THE MINOR

A student minoring in Spanish will take Spanish BC 3020, BC 3031, and BC 3032 as well as three of the following courses: Spanish BC 3017, BC 3018, BC 3023, BC 3025, and BC 3026.

COURSES OF INSTRUCTION

LANGUAGE COURSES

(Enrollment limited to 20 students per section.)

SPA V 1101x-SPA V 1102y. Elementary Full-Year Course.

Grammar, reading, conversation. One class per week will be devoted exclusively to oral proficiency practice. Students will use walkmen for home oral review.—Instructors to be announced.

No credit is given for V 1101 unless V 1102 is completed.

4 points.

Sections I, II M F 10:00.

Section III M F 11:00.

A voluntary Elementary Conversation course (BC 1004x-BC 1005y) open only to V 1101-1102 students will be offered. Students should consult instructor. 1 point per semester.

SPA BC 1001x-SPA BC 1002y. Intensive Elementary Course.

Intensive alternative to Spanish V 1101-V 1102 based on the Dartmouth Intensive Language model and designed to promote rapid oral fluency. Class meets ten hours per week: five hours devoted to drill work, five hours to communicative situations. Primarily for students who need to acquire Spanish for travel or professions requiring fluency.—James Crapotta, A. Ramos, and staff.

5 points. No credit is given for course BC 1001 unless BC 1002 is completed.

M Tu W Th F 9:00 and M Tu W Th F 12:00.

SPA BC 1003x. Intensive Review of Elementary Spanish.

Course for incoming students whose score on the placement examination puts them between the beginning and intermediate level. Also intended for students of Spanish-American background who have some speaking knowledge of Spanish but insufficient formal training or grammatical foundation.—Staff.

Prerequisite: Course V 1101 or the equivalent.

4 points.

Section I M Tu W Th 1:00.

Section II M Tu W Th 3:00.

SPA BC 1203x, SPA BC 1204y.

Intermediate Course. I, II.

Rapid review of grammar and syntax; oral practice; discussion and analysis of important works in Spanish and Spanish-American

literatures.—Staff.

Prerequisite: V 1102 or BC 1102 or the equivalent.
3 points.

Section I M W F 10:00.

Section II M W F 11:00.

Section III M W F 10:00.

SPA BC 1205x. Intermediate Spanish I through Theatre.

An alternate course to Spanish BC 1203 (Students may not receive credit for both courses.), stressing oral and written skills through reading and performance of dramatic texts. Review of pronunciation and grammar through analysis of dialogue. Writing of original scripts and dramatic monologues. Videotaping of some performances. Plays will include one work being performed in the city by a professional company. Recommended for students particularly interested in developing communicative skills.—L. Castaños.

Prerequisite: V 1102 or BC 1002 or the equivalent.

Limited to 15 students.

3 points. M W F 11:00.

SPA BC 1206x, SPA BC 1207y.

Intermediate Conversation.

Intensive oral practice; pronunciation; technical vocabulary; short speeches; group discussion.—Staff.

Recommended parallel: Spanish BC 1203, BC 1204.

Prerequisite: V 1101x-V 1102y or the equivalent.

Not open to native speakers.

2 points. M W 12:00-1:00.

SPA BC 1203y. Intermediate Course. Part I.

Equivalent to BC 1203x but given in the Spring Term.—Staff.

Prerequisite: V 1102 or the equivalent.

3 points.

Section I M W F 10:00.

Section II M W F 11:00.

SPA BC 1204. Intermediate Course. Part II.

Equivalent to BC 1204y, but given in the Autumn Term.—Staff.

Prerequisite: BC 1203 or the equivalent.

3 points.

Section I M W F 10:00.

Section II M W F 11:00.

SPA BC 3004x, SPA BC 3004y. Language and World View.

Reinforcement and development of Modern Language skills through focused attention on

Spanish

contemporary socio-political issues of Spain and Latin America. Useful for students in Foreign Area Studies, Political Science, History, and Economics.

Prerequisite: BC 1204 or the equivalent.

Limited to 20 students.

3 points.

SPA BC 3004x. I. Latin American Women

Today: Facts and Fallacies.

An investigation of how language, history, ideology, popular culture and politics shape the experience of Latin American women. Students will refine their competence in formal argument in class debates and written presentations. Materials will be drawn from essays, newspapers, films, soap operas, advertising, popular music, comic strips and Indian legends.—F. Schiminovich.

Tu Th 1:10-2:25.

SPA BC 3304y. II. Special Issues in Contemporary Spain.

Feature films and readings from newspapers, magazines, and journals centering on the issues confronting contemporary Spain: the transition to democracy and modernization, terrorism, regional autonomy, feminism, and sexual identity. Readings, discussions, and papers designed to improve oral and written proficiency.—A. Ramos.

Tu Th 1:10-2:25.

SPA BC 3006x. Problems of Spanish

Grammar: Exploring New York City Spanish.

The course is designed to familiarize students with the many Spanish language norms of New York City, i.e., Caribbean, Argentinian, Colombian, and Central American dialects. Phonetics and syntax will be studied on both a theoretical and practical level. There will be field trips to diverse Spanish-speaking communities in the metropolitan area in conjunction with special student projects.—V. Soto Borges.

Prerequisite: BC 1204 or the equivalent, or Latin American background. Recommended to students in Education, Linguistics, Urban Affairs. May be used to fulfill the foreign language requirement by students of Spanish-American background with instructor's permission.

3 points. Tu 1:10-3:55.

SPA BC 3007y. Advanced Composition and Translation.

Designed to improve expository skills and to develop greater stylistic subtlety and flexibility. Translation of various styles of poetry and prose.—A. MacAdam.

Prerequisite: BC 1204 or the equivalent.

Not offered in 1988-89.

3 points. M W 1:10-2:25.

SPA BC 3009x, BC 3010y. Advanced Oral Spanish.

Spoken Spanish, differences of pronunciation in Spain and America; conversation, oral drills, theatrical improvisation, and field work.—Staff.

Prerequisite: BC 1204 or the equivalent and permission of the instructor. Not open to native speakers. Enrollment limited to 15 students per section.

2 points. M W 12:00-1:00.

LITERATURE AND CULTURE COURSES

For non-majors, all courses except BC 3013, BC 3015, and BC 2016 will count toward the distribution requirement. All departmental courses are conducted in Spanish unless otherwise stipulated.

The prerequisite for all literature courses is satisfaction of the foreign language requirement in Spanish. Exceptions should be discussed with the instructor and the departmental chairman.

SPA BC 3005x. Literary Analysis of Contemporary Authors.

Major twentieth-century works; techniques of literary analysis as they apply to different genres; theories of criticism; critical evaluation of style, structure, and content.—F. Schiminovich.

Not offered in 1988-89.

3 points.

SPA BC 3011x, SPA BC 3011y. Significant Themes of Contemporary Latin American and Spanish Literature.

Selected works of contemporary interest. BC 3011 may be elected more than once for course credit, providing sections vary.

3 points.

H

SPA BC 3011x. XIV. Contemporary Latin American Short Fiction in a Socio-Historical Context.

Historical readings of narrative structures within the context of Latin American politics and society. Short stories by Juan Rulfo, Augusto Roa Bastos, Julio Cortázar, Rosario Ferré, Jose Donoso, Gabriel García Márquez, Alejo Carpentier, and Isabel Allende.—V. Soto Borges.

3 points. M W 2:40-3:55.

SPA BC 3011y. XV. Narrative and Revolution: Mexico, Cuba, and Nicaragua.

The study of testimonial literature, historical and political essays and selected works of fiction shedding light on these three revolutionary upheavals occurring in Latin America. Documentary films will be shown. Readings

Spanish

include Mariano Azuela, Martín L. Guzman, Fidel Castro, Reinaldo Arenas, Desnoes, Cortázar, and Omar Cabezas.—P. Rozencvaig. 3 points. M W F 11:00. **H**

SPA BC 3011y. XVI. The Spanish Civil War (1936-39): Literature and Society.

This course will coincide with the fiftieth anniversary of the conclusion of the civil war which was the testing ground for World War II. Through the study of history, prose, poetry, and film the course will focus on the social, political, and cultural upheavals that led to the conflict and the effect of the war on leading writers. Authors will include Miguel Hernández, Ramón Sender, George Orwell, Ernest Hemingway and others.—L. Castanos. 3 points. Tu Th 1:10-2:25. **H**

SPA BC 3013x. The Culture of Spain.

History and culture of Spain: origins and evolution of Spanish character, tradition, and thought; interrelationship of its history and arts and the scope of its contribution to Western culture. Use of audiovisual materials.—M. Welles. 3 points. Tu Th 10:35-11:50. **H**

SPA BC 3015x. Spanish-American Culture I.

Spanish-American history, society, and art, from the time of the great Indian empires to the late nineteenth century.—P. Rozencvaig. 3 points. Tu Th 1:10-2:25. **H**

SPA BC 3016y. Spanish-American Culture II.

Spanish-American culture from the late nineteenth century to the present day.—V. Soto Borges. 3 points. Tu Th 2:40-3:55.

Note: Both terms (BC 3015, BC 3016) required of Latin American Areas majors. The first semester (BC 3015) required of Spanish majors.

SPA BC 3017x. Spanish Literature in the Middle Ages and the Early Renaissance.

A consideration of how East meets West in the forging of a national ethos and culture. The presence of Christians, Moors, and Jews in Spanish literature from its origins to the early sixteenth century. Readings range from the epic masterpiece *El Poema del Cid* to *La Celestina* by Fernando Rojas.—M. Servodidio. 3 points. M W F 10:00. **H**

SPA BC 3018y. Literature of the Golden Age.

A study of the poetry, theatre, and narrative of a society in crisis, as Spain confronts both Islam and the Protestant north, and deals with the problems of rural and urban decline. Authors include Cervantes, Lope de Vega, Tirso de Molina, and Calderón.—M. Welles. 3 points. M W F 11:00. **H**

SPA BC 3020y. Don Quijote.

Cervantes' masterpiece; a study of the principal critical works.—J. Crapotta.

Prerequisite: BC 3017 or BC 3018 or permission of the instructor.

3 points. M W 1:10-2:25. **H**

SPA BC 3023y. Nineteenth-Century Literature: The Struggle of Two Spains.

From the turbulent romantic works of Rivas, Zorrilla, and Espronceda to the biting satire of Larra to the realistic and naturalistic novels of Galdós and Alas.—A. Ramos. 3 points. Tu Th 10:35-11:50. **H**

SPA BC 3025x. Contemporary Literature.

Part I: The Search for a National Identity.

The "problem" of Spain in the wake of the Spanish-American war as seen by such writers as Unamuno, Baroja, Azorín, Valle-Inclán, Benavente, and Ortega y Gasset. The course will also cover the poetry of A. Machado and Juan Ramón Jiménez.—M. Servodidio. 3 points. M W 1:10-2:25.

SPA BC 3026y. Contemporary Literature.

Part II. From the Avant-Garde to Social Realism and After.

Literary trends from García Lorca and the Generation of 1927, through the post-civil war authors, to the current generation of the *novísimos*.—M. Welles. 3 points. M W F 10:00. **H**

SPA BC 3031x, SPA BC 3032y. The Literature of Latin America.

Autumn Term: From the flowering of baroque literature during the colonial period, with special emphasis on the writings of Sor Juana Inés de la Cruz, to the renaissance of Spanish-American writing during the period of *modernismo*—1880-1920.—A. MacAdam. 3 points. Tu Th 2:40-3:55. **H**

Spring: From the explosion of Latin American poetry during the period of the avant-garde until the emergence of Latin American prose during the 1960s. Special emphasis on Pablo Neruda, Octavio Paz, Jorge Luis Borges, and García Márquez.—A. MacAdam. 3 points. Tu Th 10:35-11:50. **H**

SPA BC 3033x, SPA BC 3033y. Senior Project.

Independent research for a senior essay, under a chosen faculty adviser and with the chairman's permission.—Staff.

Open only to seniors.

3 points. Hours to be arranged.

SPA BC 3034y. Independent Research in Latin America.

Designed for senior majors in Latin American

Spanish

areas to examine those aspects of Latin American culture which have the greatest significance for them. Senior essay written in consultation with the major adviser and an instructor selected from the department appropriate to the specific topics. Students may also consider a translation project.—A. MacAdam.

Open to senior majors in Latin American areas; other by written permission.

3 points. Hours to be arranged.

SPANISH COURSES IN TRANSLATION

SPA BC 2001y. Modern Latin American Narrative.

An introduction to modern Latin American narrative for English-speaking students. The course seeks to examine the major trends in Latin American narrative, from the late nineteenth century to the present. Readings include Machado de Assis, Borges, Cortázar, Fuentes, García Márquez, and Mario Vargas Llosa.—A. MacAdam.

3 points. Tu Th 1:10-2:25.

H

SPA BC 2016y. Spanish-American Culture II.

Spanish-American culture from the period of Independence to the present day. Readings will consist of personal documents (letters, memoirs, diaries) as well as essays by Latin American intellectuals. Among authors to be read are: Simón Bolívar, Borges, Octavio Paz, Puig.—A. MacAdam.

Not offered in 1988-89.

3 points.

H

SPA BC 2017x. Don Quixote and Its Influences.

Ways in which authors and critics have

understood and reinterpreted the character of Don Quixote and have been inspired by Cervantes' narrative techniques and thematic preoccupations. Emphasis on problems of satire, dreams and reality, idealism and materialism and the self-conscious narrative. Authors to include Cervantes, Fielding, Dickens, Galdós, Dostoevsky, Flaubert, Unamuno, Pirandello, Borges, Greene and Barnes.—J. Crapotta.

3 points. M W 1:10-2:25.

H

SPA BC 2018y. The Comedies of García Lorca and Others.

Luz Castaños.

Not offered in 1988-89.

3 points.

H

MRS BC 3087y. Spain of the Hapsburgs: A Culture in Crisis.

A survey of the crises that beset Spain during the sixteenth and seventeenth centuries. The course focuses on the role of art and literature in the formation of national ideology. Readings include the *Lazarillo de Tormes*, St. John of the Cross, Cervantes, and Lope de Vega.—M. Welles.

Not offered in 1988-89.

3 points.

H

AREA COURSES

For information on Latin American and Spanish Area courses, see listings under Foreign Area Studies.

SPA C 3333x-C 3334y. Masterpieces of Spanish Literature (in Spanish).

3 points. Tu Th 2:40-3:55.

H

Statistics

Office: 618 Mathematics Building

Telephone: 280-3652

Officers of the University offering courses in Statistics:

Professors

Cyrus Derman, Ioannis Karatzas, Morton Klein, Howard Levene

Assistant Professors

Victor de la Pena, David Edelman, Minggao Gu, Jan Winnicki (Departmental Representative, 613 Mathematics), Yannis Yatracos

Adjuncts

Gabrielle Kelly, Patrick Shrout, Peter Welch

The Department of Statistics offers a wide range of courses in probability and statistics. Probability and statistics deal with phenomena involving uncertainty. Probability theory describes the behavior of given random systems, while statistical methods facilitate the discovery of hidden regularities in such systems from observed data. The department trains students to apply statistical methodology in their later careers in the biomedical or social sciences, business, engineering, etc., or to continue with graduate study in statistics, business management, operations research and related fields. Members of the department are actively engaged in both theoretical and applied research. Students may not take both 1001 and 1111 for credit. Certain majors require 1111. Consult your respective major department.

REQUIREMENTS FOR THE MAJOR

All majors should consult the departmental representative regularly in planning their programs of study. The requirements listed below are special to this department and must be read in conjunction with the general requirements for the bachelor's degree. As a rule, no more than 12 points of transfer credit may be accepted toward the major.

A total of 13 courses are required for the major:

Mathematics V 1101, V 1102 and V 3202, or their equivalents
Statistics-Operations Research W 3611, or Statistics-Eng Math W 3658
Statistics W 3659, W 3662 and W 3701.

One approved course in computer science beyond the introductory level and 5 additional courses to be chosen with departmental approval from statistics, mathematics, computer science, or operations research, at least 2 of which must be statistics courses numbered above 4100.

A major examination set by the department must be passed in the senior year. By special permission, a Senior Project may be substituted.

REQUIREMENTS FOR THE MINOR

The minor in statistics requires 4 courses in statistics including:

W 3611 (or W 3658), W 3612 (or W 3659), W 3662, or any statistics course numbered above 4100 and one approved course in computer science.

COURSES OF INSTRUCTION

STA W 1001x, y. Introduction to Statistics.

Intended for students in non-quantitative fields. Elementary treatment of basic ideas in probability and statistics. Frequency graphs, measures of centrality, spread and association; notions of probability and conditional probability; binomial distributions and normal (bell curve) approximation. Sampling, estimation; tests of significance, regression.—x: D. Edelman; y: Victor de la Pena.

Prerequisite: some high school algebra.
3 points. Hours to be arranged.

STA W 1111x, y. Introduction to Statistics.

An introduction to the principles of quantitative reasoning and methods of statistics, with applications to social and natural sciences. Elements of data analysis. Graphical and numerical summaries of data. Probability and distributions of random variables. Statistical inference. Tests of hypotheses. Estimation of unknown parameters. Comparing treatment with control. Basic concepts of correlation with regression analysis.—x: Y. Yatracos. y: D. Edelman.

Prerequisite: High school mathematics through intermediate algebra. This course may be followed

Statistics

by W 3621 or W 3625 or appropriate courses in statistics given by other departments.

3 points.

x: Tu Th 9:10-10:25. Discussion section to be arranged.

y: Tu Th 6:10-7:25. Discussion section to be arranged.

Statistics-IEOR STO W 3611x.

Probability and Statistical Inference I.

Probability theory. Important distributions. Central limit theorem. Introduction to data analysis. Estimation: point and confidence intervals. Hypothesis testing.—M. Klein.

Prerequisite: A working knowledge of calculus.

3 points. M W 1:10-2:25.

Statistics-IEOR STO W 3612y. Probability and Statistical Inference II.

Principles of statistical inference. Statistical decision problems. Maximum likelihood estimation. Nonparametric procedures. Correlation and curve-fitting. Applications of probability theory and statistics to engineering, natural and social sciences.—C. Derman.

Prerequisite: Statistics W 3611x or the equivalent.

3 points. M W 11:00-12:15.

Statistics-Eng Math STE W 3658x, y.

Probability.

Fundamentals of probability theory. Distributions of one or more random variables. Moments. Generating functions. Functions of a random variable. Law of large numbers and the central limit theorem.—x: C. Derman; y: J. Winnicki.

Prerequisite: a working knowledge of calculus.

3 points. M W 1:10-2:25.

STA W 3659y. Statistical Inference.

Principles of statistical inference. Population parameters, sufficient statistics. Basic distribution theory. Point and interval estimation. Method of maximum likelihood. Method of least squares, regression. Introduction to the theory of hypothesis testing. Likelihood ratio tests. Nonparametric procedures. Statistical design theory. Applications to engineering, medicine, natural and social sciences.—J. Winnicki.

Prerequisite: Statistics-IEOR W 3611 or W 3658 or the equivalent.

3 points. W 6:50-9:20.

STA W 3662x. Regression and Analysis of Variance.

Simple linear regression. Multiple regression. Hypothesis testing and confidence sets. Analysis of variance for one-way, two-way factorial designs. Multiple comparisons. Components of variance models. Elements of exper-

imental design; randomized blocks and Latin squares.—H. Levene.

Prerequisite: Statistics W 3659 or the equivalent, linear algebra, and computer programming.

3 points. W F 4:10-5:25.

STA W 3701y. Introduction to Data Analysis.

Data analysis using the computer statistical package SCSS and selected exploratory data analysis subroutines. Topics include editing of data for errors, exploratory and standard techniques for one-way analysis of variance, linear regression and two-way analysis of variance. Material is presented in case-study format.—M. Gu.

Prerequisite: A one-term introductory statistics course.

3 points. Tu 2:10-4:00 and two hours of laboratory to be arranged.

Statistics-IEOR STO W 4105x, y. Probability.

Fundamentals, random variables, and distribution functions in one or more dimensions; moments, conditional probabilities, and densities; Laplace transforms and characteristic functions. Infinite sequences of random variables; weak and strong laws of large numbers; Central Limit theorem.—x: J. Winnicki; y: D. Edelman.

Prerequisite: A working knowledge of calculus.

Can be taken as the sole course by students needing a basic knowledge of probability or as the foundation for more advanced courses at the senior-undergraduate or M.A. level.

3 points. x: M 6:50-9:20; y: Tu 6:50-9:20.

Statistics-IEOR W 4150y: Introduction to Probability and Statistics.

Fundamentals of probability theory and statistical inference used in engineering and applied science. Probabilistic models, random variables, useful distributions, expectations, law of large numbers, central limit theorem. Statistical inference: point and confidence interval estimation, hypothesis tests, linear regression.—V. de la Pena.

Prerequisite: A working knowledge of calculus.

3 points. Hours to be arranged.

Statistics-IEOR STO W 4606x, y.

Elementary Stochastic Processes.

Review of elements of probability theory. Poisson process. Exponential distribution. Renewal theory. Wald's equation. Introduction to discrete time Markov chains and applications to queueing theory, inventory models, branching processes.—x: J. Winnicki; y: C. Derman.

Prerequisite: Statistics-Eng Math W 3658, Statistics-IEOR W 4105 or the equivalent.

3 points. x: M 6:50-9:20.

y: Tu 6:50-9:20.

Statistics

STA W 4113y. Nonparametric Statistics.

Statistical inference without parametric model assumption. Hypothesis testing using ranks, permutations, and order statistics. Nonparametric analogs of analysis of variance. Tolerance limits. Robust estimation. Introduction to sequential statistical procedures. Applications to quality control and clinical trials.—M. Gu.

Prerequisite: Statistics W 3659.

Alternate years.

3 points. Hours to be arranged.

STA W 4115y. Multivariate Statistical Inference.

Multivariate normal distribution, multivariate regression and analysis of variance; canonical correlation and tests of independence. Principal components and other models for factor analysis. Discriminant functions and the classification problem; cluster analysis.—P. Shrout.

Prerequisite: Statistics W 3662 or 4112 or the equivalent.

3 points. Hours to be arranged.

STA W 4137x. Times Series Analysis.

Least squares smoothing and prediction, linear systems. Fourier analysis and spectral estimation. Discussion of the impulse response and transfer function. Fourier series, the fast Fourier transform algorithm, autocorrelation function and spectral density. Univariate Box-Jenkins modeling and fore-

casting. Emphasis will be on practical applications and the theoretical foundation necessary for understanding and extending these applications in examples from the physical sciences, social sciences and business. Sample output from an interactive graphical-statistical system will be an integral part of the lectures. Emphasis on the role of computer graphics, using an interactive graphical-statistical system.—P. Welch.

Corequisite: W 3662 or the equivalent.

3 points. Th 4:10-6:00.

STA W 4143x Theory and Analysis of Lifetime Data.

Survival distributions, types of censored data, estimation for various survival models, nonparametric estimation of survival distributions and related functions, comparison of two or more survival distributions, the proportional hazard and accelerated lifetime models for covariate data, regression analysis with lifetime data.—M. Gu.

Prerequisite: Statistics W 4107, or the equivalent.

Alternate years.

3 points. 4:10-6:40.

STA C 3997x or y. Independent Research.

Prerequisite: The permission of a member of the department. May be repeated for credit. The student participates in the current research of a member of the department and prepares a report on the work.—Staff.

3 points.



Theatre

Office: 230 Milbank Hall

Telephone: 280-2079, 2080

Adjunct Professor and Director of the Minor Latham Playhouse

Paul Berman (Chairman)

Adjunct Associate Professors

Gordon Gray, Elizabeth Swain

Adjunct Assistant Professors

Christopher Barreca, Judith Dolan, Gregor Paslawsky

Instructor

Dennis Parichy

The Theatre Department offers the student three tracks for concentration: Performance (Acting and Directing), Design and Technical Theatre, and Critical and Historical Studies. Within the context of Barnard's Liberal Arts program the student is provided with the opportunity to develop a strong intellectual and artistic approach to the work. Although the department offers a Theatre History sequence, an Acting and Directing sequence and a Design and Technical Theatre sequence, additional courses in Dance, Art History, Literature, Music, and Dramatic Literature are to be undertaken outside the department.

The Liberal Arts experience is of great importance to the student who must learn to analyze texts, research historical, social and cultural contexts and make critical decisions, all of which lend to the artistic rendering of a play.

Students will perform in works in the Marion Victor Studio as part of class work and projects, and in larger productions serving the university community in the Minor Latham Playhouse.

All theatre majors will have responsibilities relating to major productions in the areas of Acting, Design, technical work or dramaturgy.

REQUIREMENTS FOR THE MAJOR

Students intending to major in Theatre should consult with the Chairman in their sophomore year to plan a program.

Required Courses

ETR BC 3131

History of the Theatre: Greeks to Shakespeare

ETR BC 3132

History of the Theatre: Shakespeare to the Nineteenth Century

ETR BC 3133

History of the Theatre: Modern Period

Three courses in dramatic literature as set forth below:

ENG BC 3163 or BC 3164

Shakespeare

One course selected from the following:

CLL V 3123

Classical Literature: Greek Drama and Its Influences

GRE BC 3305

Tragedy

ENG BC 3169

English Drama: 900-1645

ENG BC 3186

Modern Drama

ENG BC 3163 or ENG BC 3164

Shakespeare

FRE BC 3034

The French Theatre of the Seventeenth Century

FRE BC 3039

Twentieth Century French Theatre

GER BC 3018

Schiller and Kleist (Not offered in 1988-89)

GER BC 3026

Post-War German Theatre

ITA V 3641

Italian Theatre and Its Contributions to

European Theatre

SPA BC 2018

Comedies of Garcia Lorca and Others

SPA BC 3018

Literature of the Golden Age

(Other courses in dramatic literature may be substituted with permission of the Chairman.)

Theatre

ETR BC 3134, Special Seminar in Contemporary British Theatre, or THR BC 3140, Special Seminar: Women in Theatre, or other special seminars in Dramatic Literature.

THR BC 3500x, y. *Special Studies in Theatre*.

Two semesters of special studies in Theatre:

Four additional courses to be chosen in consultation with the departmental adviser from the following:

THR BC 3001	<i>Acting I: Introduction to Acting</i>
THR BC 3002	<i>Acting II: Scene Study for the Actor</i>
THR BC 3003	<i>Acting III: Advanced Scene Study</i>
THR BC 3004	<i>Acting IV: Problems in Styles</i>
THR BC 3131	<i>Basic Design for the Theatre</i>
THR BC 3132	<i>Scenic Design</i>
THR BC 3133	<i>Costume Design</i>
THR BC 3134	<i>Lighting Design</i>
THR BC 3201	<i>Directing I</i>
THR BC 3202	<i>Directing II</i>
ENG BC 3113	<i>Dramatic Writing</i>
ENG BC 3121	<i>The Uses of Speech</i>
ENG BC 3124	<i>Oral Interpretation of Dramatic Literature</i>
ENG BC 3127	<i>Public Speaking</i>
PIA BC 3031	<i>Imagery and Form in the Arts</i>
PIA BC 3351	<i>Junior Colloquium</i>
ITA V 3642	<i>Studies in Contemporary Italian Arts</i>
ITA V 3034	<i>Italian Renaissance: Courts and the Theatre</i>
MUS V 1005	<i>The Opera</i>
DAN BC 2561	<i>Anatomy for the Dancer and Technique</i>
DAN BC 2562	<i>Movement Analysis and Technique</i>

(Other courses pertinent to study of theatre-related subjects may be substituted with the permission of the Chairman.)

The senior theatre major must complete a semester-long thesis course, either in the area of Performance, or within the areas of History, Dramaturgy, Criticism.

THR BC 3997	<i>Senior Project: Performance</i>
THR BC 3998	<i>Thesis Course in History, Dramaturgy, Criticism</i>

COURSES OF INSTRUCTION

THR BC 3001x, y. *Acting I: Introduction to Acting*.

Development of the actor's instrument, focusing on the body, the voice, the senses and the imagination, preparing the student for work on scenes from the contemporary repertoire. Students will learn basic theatre terminology and how to approach a play-script for performance. Each class will include theatre exercises, games, improvisation and discussion.

3 points.

Section 1 M W 12:00-1:50—G. Gray.

Section 2 Tu Th 10:00-11:50—G. Paslawsky.

2 additional hours to be arranged.

THR BC 3002x, y. *Acting II: Scene Study for the Actor*.

At least four fully rehearsed scenes will be required of all students. Each scene will be worked out in class at different stages of the

rehearsal process, with substantial outside rehearsal in between. Classes will include vocal and physical work as well as analytical exercises.

Prerequisite: Introduction to Acting (Acting I) or its equivalent.

3 points.

Section 1 M W 2:10-4:00—E. Swain.

Section 2 Tu Th 12:00-1:50—G. Gray.

2 additional hours to be arranged.

THR BC 3003x, y. *Acting III: Advanced Scene Study*.

A more advanced version of *Scene Study for the Actor* (BC 3002) which will explore more difficult plays and their performance problems. Emphasis on plays that present problems in style, such as the works of Beckett and Brecht.—E. Swain.

Prerequisite: THR BC 3002, or the equivalent.

Prerequisites or corequisites for non-majors: ETR BC 3131, 3132, 3133, or the equivalent.

3 points. M W 10:00-11:50, plus 2 additional hours to be arranged.

Theatre

THR BC 3004x, y. Acting IV: Problems in Style.

These courses are designed to broaden knowledge of periods, writers, works, genres and theories through rehearsal and performance, oral reports, textual analyses, and investigation of the cultural and aesthetic background of specific works. Different semesters will focus on such topics as Shakespeare and verse, *Commedia dell'Arte*, Brecht, French Neoclassical theatre, Grotowski. Topic for Autumn 1988 is Clown and Mask. The topic for Spring 1989 is Shakespeare. x: G. Gray, y: E. Swain.

Prerequisite: THR BC 3003, or the equivalent.

Prerequisites or corequisites for non-majors: ETR BC 3131, 3132, 3133, or the equivalent.

3 points. M W 2:10-4:00, plus 2 additional hours to be arranged.

ETR BC 3131x. History of Theatre: The Greeks to Shakespeare.

Study of theatre literature and practice in the Greek and Roman periods through the Middle Ages and the Renaissance to the Restoration in England and France.—P. Berman, E. Swain.

Enrollment limited to 40 students.

Not offered in 1988-89. Offered Autumn 1989-90.

3 points. H

ETR BC 3132x. History of Theatre: Shakespeare to the Nineteenth Century.

Study of theatre literature and practice from the Elizabethan period to the nineteenth century. Focus on Shakespeare and Spanish and French drama of the period.—P. Berman, E. Swain.

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55. H

ETR BC 3133y. History of Theatre: Modern Period.

Major developments of the modern period in drama, scenic approaches, stage directing and acting. Topics include the work of Stanislavsky, Meyerhold, Artaud, Brecht, Grotowski and Brook, the innovations of Craig, Appia and Copeau, and the drama of Chekov, Ibsen, Strindberg, Shaw and other playwrights up to modern times.—P. Berman, E. Swain.

Enrollment limited to 40 students.

3 points. Tu Th 2:40-3:55. H

THR BC 3131x. Basic Design for the Theatre.

The basic concerns, methods, and tools of the designer, focusing on problems of conceptualization, the designer's encounter with the text, and the translation of concept into plastic stage image in set, costume, and lights. The course includes guest lecturers from

professional theatre.—D. Parichy.
3 points. Tu Th 9:10-10:25.

THR BC 3132x. Scenic Design.

Study and practice of the basic elements of scenic design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre.—C. Barreca.

Prerequisite: THR BC 3131 or permission of the instructor.

3 points. M W 12:10-1:25. Laboratory hours to be arranged.

THR BC 3133y. Costume Design.

Study and practice of the basic elements of costume design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre.—J. Dolan.

Prerequisite: THR BC 3131 or permission of the instructor.

3 points. M W 2:40-3:55. Laboratory hours to be arranged.

THR BC 3134y. Lighting Design.

Study and practice of the basic elements of lighting design for the realization of dramatic texts in performance. The course includes guest lecturers from the professional theatre.—D. Parichy.

Prerequisite: THR BC 3131 or permission of the instructor.

3 points. Tu Th 9:10-10:25. Laboratory hours to be arranged.

THR BC 3500x, y. Special Studies in Theatre.

Special problems in the theatre for actors, directors, designers and critics.—P. Berman and theatre staff.

Prerequisite: Permission of the instructor.

4 points. Hours to be arranged.

ETR BC 3134. Special Seminar in Contemporary British Political Theatre.

An examination of plays and production approaches employed by the post-1968 British political theatre movement, focusing on such authors as Bond, Hare, Edgar, Poliakov, Keefe and Churchill. Antecedents such as Shaw and Brecht will be discussed to provide a broader context in order to explore methodology and the social climate conducive to political theatre.—E. Swain.

Prerequisite: One semester of theatre history or permission of the instructor.

Offered in alternate years. Not offered in 1988-89. 3 points.

THR BC 3140x. Special Seminar: Women in Theatre.

The course will explore different images of women as presented in dramatic literature of

Theatre

various countries and historical periods, and of women's evolving roles as practitioners of theatre: as playwrights, directors, actresses, etc.—E. Swain.

Enrollment limited to 15 students.

3 points. F 2:10-4:00.

THR BC 3201x. Directing I.

Script analysis for the director and the examination of texts according to structure and metaphor, within a theoretical framework. From this study the student proceeds to an exploration of the director's production concept: its formulation through analysis and rehearsal process, and realization in theatrical terms. The works of seminal directors and theorists such as Stanislavsky, Artaud, Meyerhold and Brecht will be dealt with in depth.—P. Berman.

Prerequisite: THR BC 3001.

3 points. Tu Th 12:00-1:50.

THR BC 3202y. Directing II.

An advanced course concentrating on problems of style. The student will direct a play for public performance at the end of the semester.—P. Berman.

Prerequisite: THR BC 3001 or equivalent, THR BC 3201, THR BC 3131.

3 points. Tu Th 12:00-1:50.

THR BC 3997. Senior Project: Performance.

A performance in the areas of acting (in a one-woman show), directing or designing a play. The student will demonstrate proficiency in her area. A paper demonstrating research performed and process evolved will also be required.—P. Berman.

Enrollment limited to senior Theatre majors.

3 points. Hours to be announced.

THR BC 3998. Thesis Course in History, Dramaturgy, Criticism.

The student will write a research paper of substantial length encompassing a historical or critical event in the history of theatre. The student will choose a specific subject in terms of playwrighting, history, dramaturgy and style, and relate it to the political, philosophical and social events of an era.—P. Berman.

Enrollment limited to senior Theatre majors.

3 points. Hours to be announced.



Urban Affairs

Office: 407 Lehman Hall

Telephone: 280-5097, 8422

This program is supervised by the Committee on Urban Affairs.

Professor of Political Science

Demetrios Caraley (Chairman)

Assistant Professor of Urban Affairs and Political Science

Kathryn B. Yatrakis (Program Director)

Professor of Anthropology

Paula G. Rubel

Professor of Economics

Deborah D. Milenkovich

Professor of English

Barry Ulanov

Professor of Sociology

Bernard Barber

Assistant Professor of Urban Affairs and Political Science

Ester Fuchs

The purpose of the Urban Affairs Program is to develop understanding of the basic institutions, problems and achievements of city life.

REQUIREMENTS FOR THE MAJOR

A major in Urban Affairs can be taken only in conjunction with a concentration in one of the regular departments.

In order to major in Urban Affairs, a student must fulfill the following requirements:

a) Eight courses distributed as follows:

One course dealing primarily with urban subject matter in **each of three** of the following departments from among those courses indicated:

Anthropology V 3100

Economics W 3228

History W 4673 or W 4674

Political Science W 3313

Sociology V 3265

Anthropology of Urban Life

The Urban Economy

American Urban History

American Urban Politics

*Minorities and Ethnic Groups
in American Life*

Urban Sociology

or Sociology V 3324

(or their equivalents)

One course dealing primarily with urban subject matter from a list approved by the committee in **one** other department, such as art history, architecture, English, geography, psychology, and urban planning. One course in a quantitative subject—statistics, computer science, or an equivalent methodology course. The list of specific courses and of the departments that offer specializations for urban affairs majors is available at the office of the Program Director.

In the junior year:

Urban Affairs V 3545-3546

Junior Colloquia V 3545:

Shaping of the Modern City

*V 3546: Contemporary Urban
Problems.*

In the senior year:

Research Seminar in the
department of concentration

and

b) The satisfactory completion of not fewer than **five** courses in the department of concentration and the writing in that department of a senior thesis on an urban topic.

Urban Affairs

REQUIREMENTS FOR THE MINOR

There is no minor in Urban Affairs.

COURSES OF INSTRUCTION

UAF BC 3535x. Colloquium in Urban Administration and Management.

Processes of administration and management of cities. Executive leadership, decision making, bureaucracy, budgeting and personnel. —K. Yatrakis.

Prerequisite: Political Science BC 3001 or V 3313, or the equivalent. Enrollment limited to ca. 20 students.

4 points. M 2:10-4:00.

UAF BC 3537x. Workshop in Urban Administration and Management.

Resources of New York City utilized to gain first-hand experience of administrative and managerial processes through unpaid internships of 8-10 hours per week. —K. Yatrakis.

Corequisite: Urban Affairs BC 3535x.

2 points.

Urban Studies UST V 3545x-V 3546y. Junior Colloquium in Urban Affairs.

Autumn Term: **Shaping of the Modern City.** Urbanization, using various methods, concepts, and materials. Origin and current status of urban problems. —T. Gilfoyle.

Spring Term: **Contemporary Urban Problems.** Problems that currently afflict urban areas and assessment of attempted solutions. Problems of urban development, housing, educa-

tion, poverty, transportation, and health. —E. Fuchs.

Prerequisite: Permission of the instructor. Enrollment limited to 15-20 students.

4 points.

V 3545x: Th 2:10-4:00. —T. Gilfoyle.

V 3546y: W 11:00-12:50. —E. Fuchs.

Political Science-Sociology PSS V 3994x-V 3995y. New York Area Undergraduate Research Program.

An ongoing program that develops a social research project from conceptualization to final report. Using New York City as a research laboratory, students choose different topics each year for study. Under the guidance of the faculty coordinator, students clarify basic theoretical issues related to the research problem; operationalize a series of empirical questions; collect evidence to test hypotheses; analyze the data using a variety of social science techniques; produce reports of basic findings. Students individually and in small groups learn many of the basic tools used by social scientists. —E. Fuchs.

Prerequisite: Enrollment limited to 10-15 students, selected by application only to the instructor.

Junior or senior standing is required. Participation is for two terms.

4 points. Tu 2:10-4:00.

Women's Studies

Office: 203 Barnard Hall

Telephone: 280-2108

This department is supervised by the Committee on Women's Studies.

Professor of Psychology

Lila Braine

Assistant Professor of Political Science

Leslie Calman

Assistant Professor of Economics

Maria Crummett

Associate Professor of Classics

Helene Foley¹

Professor of Spanish (Columbia)

Jean Franco

Professor of English (Columbia)

Carolyn G. Heilbrun

Professor of English

Maire Jaanus

Director of the Women's Center

Temma Kaplan

Professor Emeritus of Sociology

Mirra Komarovsky

Visiting Professor of Women's Studies and Art History

Natalie B. Kampen (Chair)

Lecturer in Sociology

Theresa Rogers

Associate Professor of History

Rosalind Rosenberg

Director of the Education Program

Susan R. Sacks

Assistant Professor of English

Celeste Schenck

Professor of Spanish

Marcia Welles

Lecturer in Spanish

Flora Schiminovich

Professor of History

Suzanne Wemple

Assistant Professor of English (Columbia)

Susan Winnett

Student Members

E. Baker, L. Milliken, J. Monick, S. Rosenstock, V. Sud, L.-M. Zerbarini

¹Absent on leave, Spring Term.

Women's Studies

Women's Studies is an interdisciplinary department for students who wish to explore the basic questions raised by the new scholarship on women. Some of the issues touched upon in this field are: sex roles, sex differences, and the concepts of femininity and masculinity; the role of women in culture and society, past and present, and their implications for the roles of men; questions about the distribution of power, work, and resources in the public and private domains and the symbolic representations of gender and identity in literature, religion, and art.

Early in their sophomore year, students interested in the major should consult the Chair or any one of the faculty members teaching Women's Studies courses for a list of advisers and required courses in the disciplines of concentration.

Students also have the option of electing a joint or double major (see p. 9); and have access to Columbia graduate courses, as well as V-courses, since some cover special areas not otherwise available at Barnard.

Complementing the Women's Studies Program, the Barnard Women's Center maintains an extensive and expanding resource collection on women's issues. The Center also sponsors monthly women's issues luncheons, a yearly conference, *The Scholar and the Feminist*, devoted to the exploration of the relationship of feminist studies to traditional scholarship, and the Reid Lectureship which brings to the campus distinguished women who have proved themselves to be responsive to women's concerns.

REQUIREMENTS FOR THE MAJOR

Majors in the department are trained in interdisciplinary research skills, and focus their studies in one of two areas of concentration: humanities *or* social sciences/history. The major in Women's Studies is taken in conjunction with study in one of the other departments. No minor is offered in Women's Studies.

Starting with the Class of 1989, the requirements for the major are 14 courses to be distributed as follows:

Women's Studies BC 3111	<i>Major Texts of the Feminist Tradition I: Wollstonecraft to Beauvoir.</i>
Women's Studies BC 3113	<i>Major Texts of the Feminist Tradition II: Beauvoir to the Present</i>
Women's Studies V 3112	<i>Colloquium in Feminist Theory</i>
Women's Studies V 3521-3522	<i>Senior Research Seminar</i>

Four other courses in Women's Studies (see listing below), three within the student's area of concentration (humanities *or* social science/history) and one in the other area (V 1001 may count in *either* area); and

Five additional courses in the department within the student's area of concentration. One of these five courses may be selected from a closely related department in the student's area of concentration.

The thesis, Women's Studies V 3521-3522, provides an opportunity for senior majors to engage in original, interdisciplinary research and to bring to bear the theoretical emphasis of feminist scholarship on a particular area of empirical investigation. Further, in the senior seminar, majors have the opportunity to discuss methodological issues and problems of research in a directed and supportive environment.

Special projects using the city's resources may be developed into term papers or incorporated into the senior essay. An extensive project under the sponsorship of at least two faculty members may be offered for course credits as Women's Studies BC 3599, *Independent Research*.

REQUIREMENTS FOR THE MINOR

No minor is offered in Women's Studies.

Women's Studies

COURSES OF INSTRUCTION

WMS V 1001y. Women and Men: Power, Politics, Poetry.

An introduction to the ways in which femininity and masculinity have been imagined in literature and constructed in culture. The new interdisciplinary scholarship on gender will be presented in works of literature, films, social science, and current theory.—E. Blackmar, C. Schenck.

H

3 points. Tu 2:10-4:00. Discussion Th 2:10-3:00.

WMS BC 3111x, y. Major Texts of the Feminist Tradition I: Wollstonecraft to Beauvoir.

The important contributions to the elaboration of feminist thought in the West evaluated through critical discussion. Analysis of works by Mary Wollstonecraft, J. S. Mill, A. Kollontai, Zora Neale Hurston, Emma Goldman, C. P. Gilman, Simone de Beauvoir and others in an attempt to discover the roots of the contemporary feminist movement.

Permission of the instructor required. Enrollment limited to 20 students.

4 points.

S

x: M 2:10-4:00. E. Wood.

y: W 2:10-4:00. R. Rosenberg.

WMS BC 3113y. Major Texts of the Feminist Tradition II: Beauvoir to the Present.

Contemporary issues in feminist thought. A review of the theoretical debates on sex roles, feminism and socialism, psychoanalysis, language and cultural representations.

Permission of the instructor required. Enrollment limited to 20 students.

4 points.

x: W 2:10-4:00. L. Calman.

y: M 2:10-4:00. M. Crummett.

H

WMS V 3112x. Colloquium in Feminist Theory.

An exploration of the way feminist scholarship has altered knowledge in diverse fields, including history, economics, psychology, literature, religion, anthropology, and biology. Guest feminist theorists will discuss their work.—N. Kampen.

Permission of the instructor required. Instructor to be announced.

4 points. Tu 2:10-5:00.

WMS BC 3117y. Women and Film.

A critical interpretation of genre films from a feminist perspective—how the image of woman relates to the language of film.—M. Phelan.

Enrollment limited to 40 students.

3 points. M W 4:10-6:00.

H

WMS BC 3120x. The Invisible Woman in Literature: The Lesbian Literary Tradition.

An interdisciplinary exploration of the lesbian experience.—E. Wood.

Not offered in 1988-89.

4 points.

H

WMS V 3521x, WMS V 3522y. Senior Seminar.

Individual research in Women's Studies conducted in consultation with the instructor. The results of each research project submitted in the form of the senior essay, and presented to the seminar.—N. Kampen.

Prerequisites: BC 3111, BC 3112, or permission of the instructor. Enrollment limited to senior majors. Instructor to be announced.

4 points.

x: M 10:00-12:00.

y: M 10:00-12:00.

WMS BC 3599x, WMS BC 3599y. Independent Research.

3 or 4 points. Hours to be arranged. Instructor to be announced.

English-Women's Studies EWS BC 3144y.

Minority Women Writers in the United States.

A study of the literature of twentieth century minority women writers in the United States, with particular emphasis upon the works of Asian, Black, Hispanic and Native American women. The works will be studied within a historical and cultural as well as literary framework, exploring the ways these writers treat their particular communities and traditions and their various experiences as Americans.—Q. Prettyman.

3 points. Tu Th 2:40-3:55.

H

WOMEN'S STUDIES COURSES IN OTHER DEPARTMENTS AND PROGRAMS

Students should consult the departmental and program listings for course descriptions.

Anthropology Women's Studies ANT W 3039y. Women in Third World Development.

E. Crandon.

Classical Civilization CLC V 3158y. Women in Antiquity.

H. Foley.

Not offered in 1988-89.

East Asian EAS V 3635x. Women in Japanese Literature, Language and Culture.

B. Ruch.

Women's Studies

East Asian EAS V 3650y. The Family in Chinese History.

R. Hymes.

Economics ECO BC 2010x. Sex, Discrimination, and the Division of Labor.

C. Conrad.

Economics ECO BC 2024y. Women in International Development.

M. Crummett.

English ENG W 3451y. Literature of Empire: Women and Imperialism.

A. McClintock.

English ENG W 3930x. Renaissance Literature: Women Writers.

M. Ferguson.

English ENG C 3971x. Feminist Literary Studies.

A. McClintock.

English ENG BC 3997x. Senior Seminar: American Women Writers.

C. Schenck.

Registration limited.

French FRE BC 3043y. French Women Writers.

E. Dezon-Jones.

French FRE BC 3020y. Special Themes in Modern French Literature: Writing, Race, and Gender.

C. Pratt.

German GER BC 3061x. Seminar on Christa Wolf.

B. Bradley.

German GER W 3448x. Women in 19th-Century Literature.

Instructor to be announced.

History HIS W 3888x. Women in 19th-Century America.

N. Woloch.

History HIS W 3992x, 3993y. Marriage, Gender and Work in 20th-Century African History.

M. Wright.

History HIS BC 3435y. Witchcraft in Early Modern Europe.

J. Merrick.

History HIS BC 3082x. American Women in the 20th Century.

R. Rosenberg.

History HIS W 3729x. Race, Gender and Science.

N. Leys Stepan.

History HIS W 3774x. Women in the Middle Ages.

C. Bynum.

Political Science POS V 3328x. Women and American Politics.

E. Klein.

Political Science POS BC 3440y. Colloquium on Women in Western Political Thought.

L. Calman.

Psychology PSY BC 3152y. Psychological Aspects of Human Sexuality.

W. McKenna.

Psychology BC PSY 3378x. Females and Males: A Psychological Perspective.

C. Williams.

Psychology PSY BC 3371x. Psychology and Women.

Instructor to be announced.

Religion REL V 3700y. Women and Religion.

V. Nyitray.

Russian RUS V 1225y. Russian Women—Myth and Reality.

M. Astman.

Sociology V 3013x. Women, Health and Health Care.

T. Rogers.

Sociology SOC V 3303y. Female and Male: A Sociological Perspective.

M. Komarovsky.

Sociology SOC V 3555y. Sociology of Family Institutions.

Instructor to be announced.

Sociology SOC G 4018x. Sex Roles and Society.

V. Zelizer.

Spanish SPA BC 3011x. Contemporary Women Poets of Latin America.

A. Pizarro Rayo.

Spanish SPA BC 3004x. I. Latin American Women Today: Facts and Fallacies.

F. Schiminovich.

Spanish and Portuguese. SPA W 3468y. Special Topics in Spanish America: Women Writers of Latin America.

J. Franco.

Theatre THE BC 3140x. Women in Theatre.

E. Swain.

FRESHMAN SEMINAR

Freshmen interested in Women's Studies may wish to select their Freshman Seminar from the Women in Literature and Culture cluster. See page 150.

Women's Studies

RECOMMENDED COURSES OF RELATED INTEREST TO WOMEN'S STUDIES.

These courses do not count for major credit, but do focus in part on women's issues and issues of gender.

Anthropology ANT V 3115x. The Anthropology of Central America.
E. Crandon.

Dance DAN BC 2565x. History of Dance: Multicultural Perspectives.
C. Novack.

Dance DAN BC 2566y. History of Dance: Western Theatre Dance.
C. Novack.

Education EDU BC 2032x. Contemporary Issues in Education.
S. Sacks.

English ENG BC 3140y. The Body in Modern Literature and Thought.
M. Jaanus.

English ENG W 3400x. Afro-American Fiction.

M. Blount.

History HIS BC 3066y. America in the Gilded Age.

M. Carnes.

History ASH BC 3401x. Cultural Approaches to the American Past.

B. Tischler.

History HIS BC 3450y. History of Childhood in America.

M. Carnes.

History HIS BC 3479x. America in the 1960s.
B. Tischler.

Political Science FOS BC 3007x. Modern Political Movements.

L. Calman.

Political Science POS BC 3013x, 3014y. Political Theory.

D. Dalton.

STUDY IN PARIS WOMEN'S STUDIES INSTITUTE

The Columbia/Barnard Reid Hall Program's Women's Studies Institute, offered in conjunction with the Women's Studies Program at Barnard College, is the first women's studies program in France sponsored by an American university.

Institute prerequisites: French BC 3021, BC 3022 or the equivalent, plus two semesters of work in Women's Studies.

French-Women's Studies FWS H 3450y. Contemporary French Thought and Feminist Theory.

Emphasis on the issues of gender as they affect the production of and response to theoretical and literary texts. —Instructor to be announced.

Prerequisite: French BC 3021, BC 3022, or the equivalents, plus two semesters of work in Women's Studies.

4 points. Hours to be arranged.

French FRE H 3442y. Advanced Practice in the French Language: Grammar and Composition.

Morphology and syntax. Thematic readings are used for analysis and oral reports as well as for intensive training in composition. Four hours per week. Fifteen weeks. —Instructor to be announced.

4 points. Hours to be arranged.

French FRE H 3992y. Supervised Study in the French University System.

Special study in the French university system under the supervision of the Director of Studies. This course is structured with the flexibility to permit either further concentration in Women's Studies or distribution into other areas. —Instructor to be announced.

3 points. Hours to be arranged.

History-Women's Studies HWS H 3550y. Women and Society in France.

Although the theme of this course will vary from one year to another, it will consistently focus on some aspect of women and society. —N. Huston.

Prerequisite: French BC 3021, BC 3022, or the equivalents, plus two semesters of work in Women's Studies.

4 points. Hours to be arranged.



XIII. Organization

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Faculty Representatives to the Board of Trustees

Professor Leslie Calman

Professor Duncan K. Foley

Student Representatives to the Board of Trustees

Maryam Banikarim

Rachelle Silverberg

The Faculty of Barnard College

- Ellen V. Futter, 1980, President of Barnard College and Dean in the University
B.A., Barnard; J.D., Columbia; LL.D., Columbia; L.H.D., Amherst; LL.D., Hamilton
- Robert A. McCaughey, 1969, Vice President for Academic Affairs and Dean of the Faculty and Professor of History
A.B., Rochester; M.A., North Carolina; Ph.D., Harvard
- Barbara S. Schmitter, 1957, Vice President and Dean for Student Affairs and Associate Professor of Psychology
A.B., Nebraska; M.A., Columbia
- Lawrence J. Aber, 1981, Assistant Professor of Psychology
B.A., Harvard; M.A., Ph.D., Yale
- Helene F. de Aguilar, 1972, Lecturer in Spanish
A.B., Barnard; M.A., New York University; Ph.D., Columbia
- Philip V. Ammirato, 1974, Professor of Biological Sciences
B.A., City College of New York; Ph.D., Cornell
- Howard Andrews, 1978, Adjunct Assistant Professor of Psychology
B.A., Richmond College; Ph.D., Rutgers
- Janice Ansley, 1975, Associate in Dance
B.F.A., Southern Methodist; M.A., Illinois
- Marina Astman, 1969, Professor of Russian
Ph.D., Columbia
- Regina Ayre, 1971, Lecturer in German
B.A., Sir George Williams College; M.A., Ph.D., Columbia
- Helen H. Bacon, 1961, Professor of Classics
A.B., Ph.D., Bryn Mawr
- Peter D. Balsam, 1975, Associate Professor of Psychology
B.A., State University of New York at Stony Brook; M.A., Ph.D., North Carolina
- Karen Barad, 1984, Assistant Professor of Physics
B.A., Brandeis; Ph.D., State University of New York at Stony Brook
- James G. Basker, 1987, Associate Professor of English
A.B., Harvard; M.A., Cambridge; D. Phil., Oxford
- Christopher C. Baswell, 1984, Assistant Professor of English
B.A., Oberlin; M.A., M. Phil., Yale; Ph.D., Yale
- David Bayer, 1987, Assistant Professor of Mathematics
B.A., Swarthmore; Ph.D., Harvard
- Paul Berman, 1986, Adjunct Professor of Theatre and Director of Minor Latham Playhouse
B.A., Queens; M.A., Hunter
- Anne Berthelot, 1987, Assistant Professor of French
B.A., Licence U. of Paris; M.A., Agrégation; Ph.D., Université de Paris
- Joan S. Birman, 1973, Professor of Mathematics
A.B., Barnard; M.A., Columbia; Ph.D., New York University
- Ann Birstein, 1981, Adjunct Associate Professor of English
B.A., Queens
- Richard Bopp, 1982, Adjunct Assistant Professor of Environmental Science
S.B., MIT; M.Phil., Ph.D., Columbia

Organization

- Laure Borgomano, 1987, Instructor of French
B.A., Lycée Français; M.A., Université de Paris; Ph.D., Agrégation
- Vilma Bornemann, 1971, Associate in Spanish and Dean of Studies
A.B., Barnard; M.A., Columbia
- Anne Boyman, 1979, Adjunct Assistant Professor of French
B.A., M.A., Ph.D., Toronto
- Brigitte Bradley, 1962, Professor of German
A.B., William and Mary; D. d'Université, Strasbourg; M.A., Ph.D., Columbia
- Lila Ghent Braine, 1974, Professor of Psychology
B.A., M.A., Ph.D., McGill
- Constance Brown, 1980, Lecturer in English
A.B., Barnard; M.A., Ph.D., Columbia
- André C. Burgstaller, 1977, Associate Professor of Economics
Licence, University of Geneva; M.A., Toronto; Ph.D., Columbia
- Leslie Calman, 1981, Assistant Professor of Political Science and Women's Studies
A.B., Barnard; M.A., M.Phil., Ph.D., Columbia
- Demetrios Caraley, 1961, Professor of Political Science and Janet H. Robb Professor of the Social Sciences
A.B., Ph.D., Columbia
- Mark C. Carnes, 1982, Assistant Professor of History
B.A., Harvard; M.A., Ph.D., Columbia
- Patricia Carpenter, 1961, Professor of Music
A.B., California; Ph.D., Columbia
- James Carter, 1981, Lecturer in Chemistry
B.A., Cornell; M.A., Ph.D., Michigan
- Luz Castanos, 1976, Associate in Spanish
A.B., M.A., Hunter
- Elizabeth Louise Caughran, 1956, Associate in English
A.B., Russell Sage; M.A., Columbia
- Roger Celestin, 1987, Instructor in French
B.A., Queens; M.A., Sorbonne
- Diana Chang, 1979, Adjunct Associate Professor of English
A.B., Barnard
- Sally Chapman, 1975, Professor of Chemistry
A.B., Smith; Ph.D., Yale
- Julia Chase, 1976, Associate Professor of Biological Sciences
A.B., Smith; Ph.D., Indiana
- Ted Chinburg, 1987, Associate Professor of Mathematics
B.S., Harvey Mudd; M.A., Ph.D., Harvard
- Constance Colby, 1972, Instructor in English
B.A., M.A., Michigan
- Furio Colombo, 1978, Lecturer in Italian
Doctor of Phil. of Law, Turin
- Cecilia A. Conrad, 1985, Assistant Professor of Economics
B.A., Wellesley; M.A., Ph.D., Stanford
- James Crappotta, 1975, Lecturer in Spanish
B.A., Queens; M.A., Ph.D., Harvard
- Maria Crummett, 1987, Assistant Professor of Economics
B.A., Stanford; M.A., Ph.D., New School for Social Research
- Dennis G. Dalton, 1969, Professor of Political Science
A.B., Rutgers; M.A., Chicago; Ph.D., Columbia
- Elizabeth Dalton, 1965, Associate Professor of English
A.B., California; M.A., Ohio State; Ph.D., Columbia

Organization

- Flora S. Davidson, 1973, Adjunct Assistant Professor of Political Science
A.B., Barnard; M.Phil., Ph.D., Columbia
- Michael X. Delli Carpini, 1987, Assistant Professor of Economics
B.A., M.A., Pennsylvania; Ph.D. Minnesota
- Elyane Dezon-Jones, 1981, Assistant Professor of French
B.A., Lycée Limoges; M.A., Poitiers; Ph.D., University of Paris IV
- Marjorie Houspian Dobkin, 1957-59; 1960, Senior Associate in English
A.B., Barnard; M.A., Columbia; Litt.D., Wilson
- Hubert Doris, 1957, Professor of Music
A.B., Harvard; M.A., Columbia
- Patricia L. Dudley, 1959, Professor of Biological Sciences
A.B., M.A., Colorado; Ph.D., Washington
- Jayasri Dutta, 1985, Assistant Professor of Economics
B.A., Presidency College, Calcutta; M.A., Ph.D., Delhi School of Economics
- Sharon Everson, 1981, Associate in Physical Education
B.S., Brooklyn; M.Ed., Temple
- William Fifer, 1981, Adjunct Assistant Professor of Psychology
B.A., Georgetown; M.A., Ph.D., North Carolina at Greensboro
- Jacqueline Fleming, 1979, Adjunct Assistant Professor of Psychology
B.A., Barnard; Ph.D., Harvard
- Duncan K. Foley, 1977, Professor of Economics
B.A., Swarthmore; Ph.D., Yale
- Helene Peet Foley, 1979, Associate Professor of Classics
B.A., Swarthmore; M.A.T., M.A., Yale; Ph.D., Harvard
- Jean E. Follansbee, 1979, Senior Associate in Physical Education
B.S., State University of New York at Cortland; M.S., Massachusetts
- Richard M. Friedberg, 1968, Professor of Physics
A.B., Harvard; M.A., Ph.D., Columbia
- Ester R. Fuchs, 1980, Assistant Professor of Political Science
B.A., Queens; M.A., Brown; Ph.D., Chicago
- Robin Garfinkel, 1982, Visiting Assistant Professor of Psychology
B.A., Pennsylvania; M.A., Ph.D., Columbia
- Serge Gavronsky, 1960, Professor of French
A.B., M.A., Ph.D., Columbia
- Renée Geen, 1956, Professor of French
A.B., Brooklyn; M.A., Wisconsin; Ph.D., Columbia
- Sandra Genter, 1961, Associate Professor of Dance
A.B. Wisconsin; M.A., Columbia
- Priscilla Gilmore, 1986, Associate in Physical Education
B.A., Pennsylvania; M.A., Columbia
- Barbara S. Goodstein, 1967, Associate in Chemistry
A.B., Barnard
- Christopher J. Grandy, 1987, Assistant Professor of Economics
B.A., San Francisco State; M.A., Ph.D., University of California at Berkeley
- Richard F. Gustafson, 1965, Professor of Russian
A.B., Yale; Ph.D., Columbia
- Danielle Haase-Dubosc, 1962, Lecturer at Reid Hall
A.B., Barnard; M.A., Ph.D., Columbia
- Gikas Hardouvelis, 1983, Assistant Professor of Economics
B.A., M.A., Harvard; Ph.D., University of California at Berkeley
- Giselle Harrington, 1972, Instructor in Education
A.B., Syracuse; M.S., Columbia

Organization

- John Stratton Hawley, 1986, Professor of Religion
A.B., Amherst; M.Div., Union Theological Seminary; Ph.D., Harvard
- Holland Hendrix, 1982, Assistant Professor of Religion
B.A., Columbia; M.A., Union Theological Seminary; Ph.D., Harvard
- Paul Hertz, 1979, Associate Professor of Biology
B.S., Stanford; M.A., Ph.D., Harvard
- Kathryn Humphreys, 1987, Assistant Professor of English
A.B., Princeton, M.A., Ph.D., Cornell
- Hidé Ishiguro, 1982, Professor of Philosophy
B.A., Tokyo; B.Phil., Oxford; Ph.D., London
- Maire Jaanus, 1968, Professor of English
A.B., Vassar; Ph.D., Harvard
- Olympia T. Jebejian, 1969, Associate in Chemistry
B.A., M.S., American University of Beirut
- Isabelle Jouanneau-Fertig, 1987, Instructor in French
B.A., M.A., Université de Paris
- Peter H. Juviler, 1964, Professor of Political Science
B.E., M.E., Yale; M.A., Ph.D., Columbia
- Natalie B. Kampen, 1988, Professor of Women's Studies and Art History
B.A., M.A., Pennsylvania; Ph.D., Brown
- Tatiana Keis, 1967, Reserve Librarian
A.B., M.L.S., Columbia
- Ruth M. Kivette, 1952, Professor of English
A.B., Barnard; M.A., Ph.D., Columbia; B.D., Union Theological Seminary;
J.D., Fordham
- Morton Klass, 1965, Professor of Anthropology
A.B., Brooklyn; Ph.D., Columbia
- Nancy Klitsner, 1987, Associate in Physical Education
B.A., Wisconsin-Madison; M.A., Columbia
- Stephanie Krstulovic, 1962, Technical Services Librarian
School of Commerce, Yugoslavia
- John Lad, 1980, Lecturer in Philosophy
B.S., Case Institute of Technology; Ph.D., Stanford; M.Mus., State University
of New York at Stony Brook
- Sue Howard Larson, 1969, Professor of Philosophy
A.B., Ph.D., Stanford
- William H. Lazonick, 1985, Professor of Economics
B.Com., University of Toronto; M.Sc., London School of Economics and
Political Science; Ph.D., Harvard
- Lydia H. Lenaghan, 1962, Associate Professor of Classics
A.B., Barnard; M.A., Ph.D., Bryn Mawr
- Leslie Lessinger, 1977, Associate Professor of Chemistry
B.A., M.A., Ph.D., Harvard
- Brunhilde Linke, 1975, Instructor in German
B.A., M.A., New York University
- Maristella de Panizza Lorch, 1951, Professor of Italian
Dott. in Lett. e. Filos., Rome
- Alfred MacAdam, 1983, Professor of Spanish
B.A., Rutgers; M.A., Ph.D., Princeton
- Joseph L. Malone, 1967, Professor of Linguistics
A.B., M.A., Ph.D., University of California at Berkeley
- Wendy J. Marks, 1988, Associate in Physical Education
B.S., Ithaca College; M.A., Kent State.

Organization

- Ann McCoy, 1981, Visiting Artist in the Arts
B.F.A., Colorado; M.A., University of California at Los Angeles
- Wendy McKenna, 1980, Adjunct Associate Professor of Psychology
B.A., Antioch; Ph.D., CUNY
- William McNeil, 1981, Associate Professor of History
B.A., Washington State; M.A., Ph.D., University of California at Berkeley
- Perry G. Mehrling, 1987, Assistant Professor of Economics
B.A., Harvard; M.Sc., London School of Economics; Ph.D., Harvard
- Jeffrey W. Merrick, 1982, Assistant Professor of History
B.A., Princeton; Ph.D., Yale
- Deborah D. Milenkovitch, 1965, Professor of Economics
A.B., Radcliffe; Ph.D., Columbia
- Barbara S. Miller, 1968, Samuel R. Milbank Professor of Oriental Studies
A.B., Barnard; M.A., Columbia; Ph.D., Pennsylvania
- James P. Mohler, 1986, Assistant Professor of Biological Sciences
B.A., Iowa; Ph.D., Massachusetts Institute of Technology
- Mark A. Moore, 1986, Instructor in Economics
B.A., Carleton; M.A., Columbia
- Joann Ryan Morse, 1957, Professor of English
A.B., Vassar; M.A., Yale
- Mary Mothersill, 1963, Professor of Philosophy
A.B., Toronto; M.A., Ph.D., Radcliffe
- Severine Neff, 1983, Assistant Professor of Music
B.A., Barnard; M.A., Yale; Ph.D., Princeton
- Catherine T. Nepomnyashchy, 1987, Assistant Professor of Russian
B.A., M.A., Brown; M.Phil., Ph.D., Columbia
- Margaret Nesbit, 1983, Assistant Professor of Art History
B.A., Vassar; M.A., M.Phil., Ph.D., Yale
- Cynthia Novack, 1978, Associate in Dance
B.A., University of California at Berkeley, Ph.D., Yale
- Barbara Novak, 1958, Altschul Professor of Art History
A.B., Barnard; M.A., Ph.D., Radcliffe
- Vivian-Lee Nyitray, 1987, Instructor in Religion
B.A., Syracuse; A.M., Stanford
- Brian O'Doherty, 1970, Adjunct Professor of Art History
M.B., MC.H., D.P.H., University College, Dublin; M.Sc., Harvard
- Anita Parzencsewski, 1982, Lecturer in English
B.A., Barnard; M.A., Ph.D., Columbia
- Remington P. Patterson, 1955, Professor of English
A.B., M.A., Ph.D., Yale
- Thomas Perera, 1966, Visiting Associate Professor of Psychology
A.B., M.A., Ph.D., Columbia
- Marie-Laurence Petit, 1987, Instructor in French
B.A., Maitrise de Langues Vivantes étrangères, Nancy; M.A.,
Maitrise d'enseignement FLE, Nancy
- Richard M. Pious, 1973, Professor of Political Science
B.A., Colby; Ph.D., Columbia
- Cary H. Plotkin, 1985, Assistant Professor of English
B.A., Yale; M.Phil., Ph.D., Columbia
- Colette Pratt, 1986, Instructor in French
B.A., M.A., Ohio State; Ph.D., Cornell University
- Anne Lake Prescott, 1959-62; 1963, Professor of English
A.B., Barnard; M.A., Ph.D., Columbia

Organization

- Quandra Prettyman, 1970, Associate in English
A.B., Antioch
- Jan Carl Rabinowitz, 1982, Assistant Professor of Psychology
B.A., State University of New York at Buffalo; Ph.D.,
University of California at San Diego
- Rosa Alicia Ramos, 1980, Assistant Professor of Spanish
B.A., Barnard; M.A., Ph.D., Pennsylvania
- Robert Remez, 1980, Associate Professor of Psychology
B.A., Brandeis; Ph.D., Connecticut
- Donna Robertson, 1984, Assistant Professor of Architecture
B.A., Stanford; M.A., of Virginia
- Rosalind Rosenberg, 1984, Associate Professor of History
B.A., Ph.D., Stanford
- Jane H. Rosenthal, 1952-55; 1971, Associate Professor of Art History
A.B., Douglass; Ph.D., Columbia
- Abraham Rosman, 1966, Professor of Anthropology
A.B., City College of New York; Ph.D., Yale
- Nan Rothschild, 1981, Assistant Professor of Anthropology
B.A., Vassar; M.A., Columbia; Ph.D., New York University
- Perla Rozencvaig, 1977, Assistant Professor of Spanish
B.A., M.A., Ph.D., Columbia
- Paula G. Rubel, 1967, Professor of Anthropology
A.B., Hunter; Ph.D., Columbia
- Susan Riemer Sacks, 1971, Senior Lecturer in Education
A.B., Northwestern; M.A., Western Reserve; Ph.D., Columbia
- Gertrud M. Sakrawa, 1952, Professor of German
Ph.D., Vienna; M.A., Ph.D., Columbia
- John E. Sanders, 1969, Professor of Geology
B.A., Ohio Wesleyan, Ph.D., Yale
- Anatol K. Saponow, 1966, Associate in Russian
Russian Gymnasium, Munich
- Marianna Greene Saponow, 1967, Associate in Russian
Russian Gymnasium, Munich
- Celeste Schenck, 1977, Assistant Professor of English
A.B., Princeton; M.A., Ph.D., Brown
- Flora Schiminovich, 1977, Senior Lecturer in Spanish
B.A., City College of New York; M.A., Ph.D., Columbia
- Aaron Schneider, 1986, Visiting Assistant Professor of English
B.A., Brandeis University; M.A., M.Phil., Ph.D., Columbia
- Peter Schubert, 1970, Assistant Professor of Music
A.B., M.A., Columbia
- Alan Segal, 1980, Professor of Religion
B.A., Amherst; M.A., Brandeis; Ph.D., Yale
- Bernice Segal, 1958, Professor of Chemistry
A.B., Radcliffe; Ph.D., Columbia
- Daniel Selden, 1984, Assistant Professor of Classics
B.A., Ph.D., Yale
- Mirella d'Ambrosio de Servodidio, 1964, Professor of Spanish
B.A., Barnard; M.A. Ph.D., Columbia
- William Sharpe, 1984, Assistant Professor of English
B.A., Columbia; M.A., Oxford; Ph.D., Columbia
- Carolyn J. Showers, 1986, Assistant Professor of Psychology
B.S.E., Princeton; M.S., University of California at Berkeley; Ph.D., Michigan

Organization

- Marvin Shulman, 1968-69; 1975, Senior Associate in German
B.A., Coe; M.A., Columbia
- Clifford Shultz, 1987, Associate in Physical Education
B.A., De Pauw; M.A., Columbia
- Rae Silver, 1976, Professor of Psychology
B.A., McGill; M.A., City University of New York; Ph.D., Rutgers
- Gabriele Simoncini, 1987, Instructor in Italian
M.Phil., Columbia
- Herbert Sloan, 1987, Assistant Professor of History
B.A., Stanford; J.D., Michigan; M.Phil., Ph.D., Columbia
- Brian Smith, 1983, Assistant Professor of Religion
B.A., Macalester; M.A., Ph.D., of Chicago
- Janet Soares, 1968, Senior Associate in Dance
B.S., Juilliard; M.A., Columbia
- Natalie Sonevytsky, 1959, Reference Librarian
A.B., New Rochelle; M.S., Columbia
- Valentin B. Soto, 1986, Assistant Professor of Spanish
B.A., City College of New York; M.A., Universidad Nacional Autonoma de Mexico; M.A., University of California at Los Angeles; Ph.D., Stanford
- Sandra Stingle, 1967, Adjunct Assistant Professor of Psychology
A.B., Barnard; Ph.D., Columbia
- Carole Swick, 1981, Adjunct Assistant Professor of Environmental Science
B.A., University of California at Los Angeles; MLA, Pennsylvania
- Timea Szell, 1979, Assistant Professor in English
A.B., Barnard; M.A., Columbia; Ph.D., State University at Stony Brook
- Barbara L. Tischler, 1985, Assistant Professor of History
B.A., Douglass College; M.Mus., Manhattan School of Music; M.A., M.Phil., Ph.D., Columbia
- Robert S. Tragesser, 1984, Assistant Professor of Philosophy
B.A., Franklin & Marshall; Ph.D., William Marsh Rice
- Mary Ellen Tucker, 1970, Systems Librarian
B.A., Barnard; M.L.S., Columbia
- Joan E. Vincent, 1968, Professor of Anthropology
B.Sc., London School of Economics; M.A., Chicago; Ph.D., Columbia
- John Vitkus, 1986, Assistant Professor in Psychology
B.A., Northwestern; Ph.D., Stanford
- Frederick E. Warburton, 1963, Associate Professor of Biology
B.Sc., M.Sc., Ph.D., McGill
- Naomi J. Weinberger, 1987, Assistant Professor of Political Science
A.B., Barnard; M.Phil., Ph.D., Columbia
- Shelley Beth Weinstock, 1985, Assistant Professor of Chemistry
A.B., Bard College; Ph.D., Massachusetts Institute of Technology
- Marcia L. Welles, 1970, Professor of Spanish
A.B., Barnard; M.A., Middlebury; Ph.D., Columbia
- Suzanne F. Wemple, 1966, Professor of History
A.B., University of California at Berkeley; M.L.S., Ph.D., Columbia

Organization

Katherine E. Wilcox, 1971, Associate in Education
A.B., City College of New York

Christina L. Williams, 1980, Associate Professor of Psychology
B.A., Williams; Ph.D., Rutgers

Kathryn Yatrakis, 1982, Assistant Professor of Urban Affairs and Political Science
B.A., Cedar Crest College; M.A., New York University; Ph.D., Columbia

Palle Yourgrau, 1985, Assistant Professor of Philosophy
B.A., Cornell; Ph.D., University of California at Los Angeles

George Zettler, 1986, Assistant Professor of Mathematics
A.B., Harvard; Ph.D., Maryland

Faculty Emeriti

Helen R. Downes, 1933-1960, Professor Emeritus of Chemistry
Ph.D.

Amelia A. de del Rio, 1930-1962, Professor Emeritus of Spanish
Ph.D.

Millicent C. McIntosh, 1947-1962, President Emeritus
Ph.D., LL.D., Litt.D., L.H.D.

Lucyle Hook, 1948-1967, Professor of English
Ph.D.

Eugenio Florit, 1945-1969, Professor Emeritus of Spanish
D. en D.

Jean T. Palmer, 1946-1969, General Secretary Emeritus
A.B.

Henry A. Boorse, 1937-1970, Professor Emeritus of Physics
Ph.D.

Julius S. Held, 1936-1970, Professor Emeritus of Art History
Ph.D.

Mirra Komarovsky, 1934-1970, Professor Emeritus of Sociology
Ph.D.

Emma Dietz Stecher, 1945-1971, Professor Emeritus of Chemistry
Ph.D.

Theodor H. Gaster, 1966-1972, Professor Emeritus of Religion
Ph.D., D.D., L.H.D., Litt.D.

Eleanor Rosenberg, 1953-1973, Professor Emeritus of English
Ph.D.

Raymond J. Saulnier, 1938-1973, Professor Emeritus of Economics
Ph.D., LL.D.

George Woodbridge, 1960-1973, Professor Emeritus of History
Ph.D.

Marion Hamilton Gillim, 1952-1974, Professor Emeritus of Economics
Ph.D.

John Kouwenhoven, 1946-1975, Professor Emeritus of English
Ph.D.

Joseph Gerard Brennan, 1947-1976, Professor Emeritus of Philosophy
Ph.D., L.H.D.

Helen Phelps Bailey, 1933-1977, Professor Emeritus of French
Ph.D.

Organization

Eleanor M. Tilton, 1950-1979, Professor Emeritus of English
Ph.D.

LeRoy C. Breunig, 1953-1980, Professor Emeritus of French
Ph.D.

Richard A. Norman, 1954-1981, Professor Emeritus of English
Ph.D.

David A. Robertson, Jr., 1940-1981, McIntosh Professor Emeritus of English
Ph.D.

Margarita Ucelay, 1943-1981, Professor Emeritus of Spanish
Ph.D.

Chilton Williamson, 1942-1982, Professor Emeritus of History
Ph.D.

Leonard Zabler, 1955-1982, Professor Emeritus of Geography
Ph.D.

Jeanette S. Roosevelt, 1951-1958; 1962-1986, Professor Emeritus of Dance
Ph.D.

Tatiana Greene, 1946-1987, Professor Emeritus of French
Ph.D.

Bernard Barber, 1952-1988, Professor Emeritus of Sociology
Ph.D.

John Meskill, 1959-1988, Professor Emeritus of Sociology
Ph.D.

Barry Ulanov, 1951-1988, Professor Emeritus of English
Ph.D., Litt.D.

Officers of Administration

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Office of the President

Lorraine L. Belgrave, A.B., Administrative Assistant to the President

Tirza S. Wahrman, J.D., Assistant to the President

Office of the Vice President for Academic Affairs and Dean of the Faculty

Gwendolyn Williams, Administrative Assistant to the Dean

Organization

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Helen Vanides, Director of Budget and Planning

Lewis Wyman, B.A., Director of Institutional Studies and Administrative Projects

James Z. Metalios, M.C.E., Director Contract Administration and Special Projects

Office of the Vice President and Dean for Student Affairs

Vivian A. Taylor, Ed.M, Associate Dean for Student Affairs

Susan F. Cohn, Ph.D., Assistant to the Vice President

Office of the Vice President for Public Affairs

Doris S. McDonald, A.B., Executive Assistant

Office of Public Affairs, Administrative Services

Thomas L. Epps, B.A., Director of Administrative Services

Linda Edlow, Gifts Management Officer

Elida Rivas, A.B., Associate Information Officer

Weslie Stubbs, B.S., Associate Director for Research

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Office of the General Counsel

Michael Feierman, J.D., Assistant General Counsel

Edna O. Ray, Administrative Assistant

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Elizabeth A.C. O'Shea, Associate Director

Jodine K. Friedow, Associate Director

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Gary Johnson, Supervisor, Housekeeping

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Barbara H. Robbins, Accounts Payable Supervisor

Ethel Yang, Payroll Supervisor

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Organization

Esther Rowland, M.Phil., M.A., Dean for Pre-Professional Students
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Katherine Wilcox, B.A., Assistant Dean of Studies
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Office for Disabled Students

Julie V. Marsteller, A.B., Dean for Disabled Students
Susan E. Quinby, M.A., Associate Director
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Zira DeFreis, M.D., Director of Mental Health Services
Margaret Backman, Ph.D., Staff Psychologist
Barbara Gibbs, M.D., Staff Psychiatrist
Giselle Harrington, Ed.D., Staff Psychological Counselor
Jeanne LeBlanc, M.A., Staff Psychological Counselor
Marian Malcolm, M.D., Staff Psychiatrist
Camillo L. Gugliucci, M.D., Consulting Gynecologist
Jaana Rehnstrom, M.S., Consulting Gynecologist
Shera Aranoff, M.D., Consulting Dermatologist
Ileane Lubell, R.N., M.S., Women's Health Specialist
Kathleen Krieger, R.N., Nurse
Theresa O'Roarke, R.N., Nurse
Lisa Vitkus, Administrator

Office of Associate Dean of Students

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STEP Director
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Felecia Y. Thomas, B.A., STEP Program Coordinator
Emma Jordan, B.A., M.A., STEP Counselor
Patricia Happy, B.A., M.A., STEP Research Evaluator
Shirley Parker, HEOP Secretary

Wollman Library

Eileen Agard Glickstein, B.A., M.A., M.L.S., College Librarian
Tatiana Keis, M.S., C.A.L., Reserve Room Librarian
Stephanie M. Krstulovic, Technical Services Librarian
Christina Bickford, M.S., Ed.M., Media Services Librarian
Natalia Sonevytsky, M.S., C.A.L., Reference Librarian
Mary Ellen Tucker, M.S., C.I.M., Systems Librarian
Mary Giunta, M.S., Collection Management Librarian

Organization

Karen Dobrusky, M.S., M.P.H., Assistant Reference Librarian
Kenneth Soehner, M.S., Acquisitions Librarian
Lucinda Manning, M.S., M.A., Archivist

Office of Management Information Systems

Frank L. Weiss, Ph.D., Director
Fran Thompson, Database Administrator
Joe Vargas, B.S., System Administrator
Beth L. Josephson, B.A., Consultant/Analyst
Bari Nemeroff, B.A., Consultant/Analyst
William Bertsch, Computer Operator

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Myrtle Tate, B.S., Associate Director

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Rhondra Tewes, B.S., Associate Director
Charles Gadsden, B.A., Employment Supervisor

Office of Public Relations

Ruth J. Sarfaty, B.A., M.A., Director
Catherine Cowhey, B.A., Associate Director

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Paula Newman, Manager

Office of the Registrar

Virginia Shaw, A.B., Registrar and Secretary to the Faculty
Elizabeth Brummett, M.Phil., Associate Registrar

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Ione G.W. Gatch, Dean of Student Life
Jeannette K. Ruffins, Associate Dean
Diane Steiden, Housing Director
Gloria Anderson, Administrative Assistant to the Dean
Sandra Swanson, Resident Director, New Dormitory
Dan Fictum, Resident Director, Brooks, Hewitt, Reid
Elizabeth Bettasso, Resident Director, 600, 616, 620 W. 116th Street
Susan Christopher, Resident Director, Plimpton Hall
Jennifer Clark, Resident Director, 49 Claremont

Office of Safety and Security

John Scacalossi, M.A., Director
Betty Weems, Associate Director
Barry Goldstein, Night Supervisor
Karla Buchting, Evening Supervisor

Office for Special Academic Programs

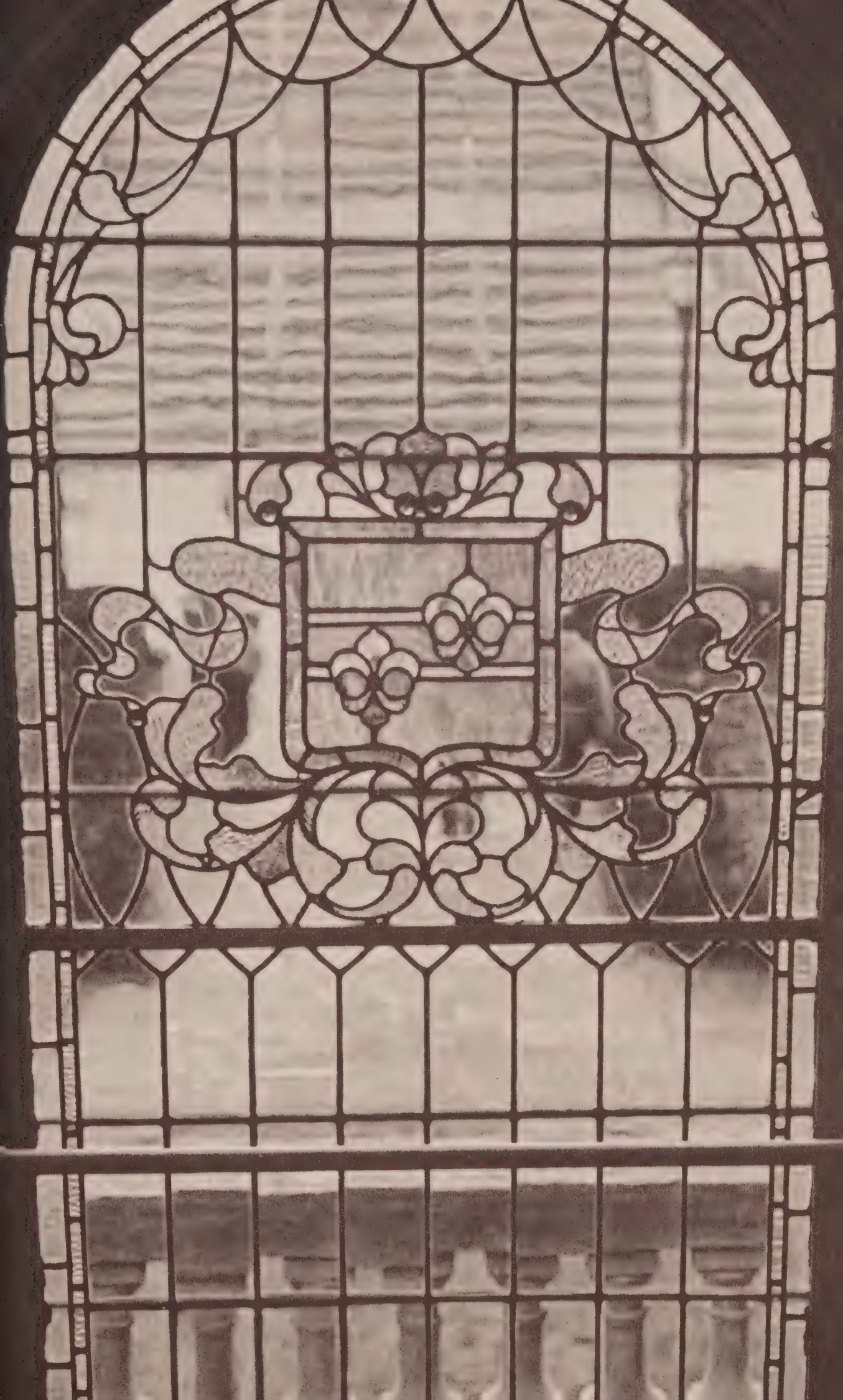
Flora Davidson, Ph.D., Dean
Catherine Webster, B.A., Assistant to the Dean

Office of Summer Programs

Jean McCurry, B.A., M.A., Director
Eileen Macholl, B.A., M.A., Associate Director
Victor Snyder, Assistant to Director

The Barnard Center for Research on Women

Temma Kaplan, Director
Ruth Farmer, Associate Director



XIV. The Associate Alumnae

The Associate Alumnae of Barnard College is comprised of 26,500 members from all fifty states of the Union and more than 63 countries abroad. Members include all who have completed a year or more of study at Barnard and have left in good academic standing as well as those who hold a Barnard degree. There are no alumnae dues. Barnard alumnae regularly receive *Barnard Alumnae* magazine, *Barnard Reporter* newsletter, and invitations to alumnae events and other annual academic and career programs.

The Associate Alumnae serve the College in three important ways: keeping local high school students informed about Barnard; interpreting Barnard to the community in general; and voluntarily aiding in the support of the College.

Barnard Alumnae Council, a nationwide group of alumnae leaders, meets annually on campus for the exchange of ideas and to receive updated information on the College so they may continue to represent Barnard effectively.

More than 50 clubs and informal local groups of Barnard alumnae in the United States and abroad form a network that makes it possible for Barnard alumnae to find one another. Alumnae traveling or moving to a new location may call the Office of Alumnae Affairs for alumnae contacts in the United States and abroad.

The Associate Alumnae is governed by a 20 member board elected annually by all Barnard alumnae. Four alumnae are elected to represent the Associate Alumnae on the Board of Trustees of Barnard College. The central office of the Associate Alumnae is the Office of Alumnae Affairs on campus.

Officer of the Associate Alumnae

Mary Louise Stewart Reid, President

Directors

Marcia Kanefsky Assor
Loretta Tremblay Azzarone
Leah Salmansohn Dunaief
Janet Bersin Finke
Jacqueline Fleming
Barbara Kahn Gaba
Rosalind Marshack Gordon
Sheila C. Gordon
Avis E. Hinkson
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Eva Miodownik Oppenheim, Associate Director
Toni Crowley Coffee, Editor, *Barnard Alumnae*
Yvonne S. Untch, Alumnae Records Officer
Gabrielle Hanna, Alumnae Programs Coordinator

XV. Barnard Area Representatives

Barnard Area Representatives (BARs) are qualified alumnae appointed by the Admissions and Alumnae Offices who act in liaison capacity between the College and prospective students, parents, and high school counselors. BARs frequently attend college information meetings at secondary schools, host informal gatherings for prospective students, and conduct local interviews. High school students considering Barnard and interested in speaking with a BAR may arrange an interview by writing to the individual nearest them. A listing of the BARs follows.

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6791 Linden



XVI. Scholarship Funds

UNRESTRICTED

Mary Allen Fund (1981).

In memory of Ruth Marley.

Neils J. Allison Fund (1964).

From the estate of Beatrice C. Allison.

Alumnae Fund (1922).

Arthur G. Altschul Fund (1984).

Anna E. Barnard Fund (1899).

Joan H. Baum Fund (1977).

Frances E. Belcher Fund (1963).

Ruth Marshall Billikopf Fund (1950).

Varian White Blumberg Fund (1952).

Elizabeth M. Bogardus Fund (1976).

Charles E. Bogert Memorial Fund and Anna Shippen Young Bogert Memorial Fund (1913).

Eva-Lena Miller Booth Fund (1932).

Dorothy S. Boyle Fund (1978).

Josephine Brand Fund (1970).

Brearley School Fund (1889).

Martha Ornstein Brenner Fund (1915).

Arthur Brooks Fund (1897).

Margaret Bullova Fund (1979).

Elsa B. Bunn Fund (1980).

Elizabeth Hobe Burnell Fund (1971).

Fanny Steinschneider Clark Fund (1978).

Thomas F. Clark Students' Fund (1928).

Jennie B. Clarkson Fund (1898).

Class of 1918 Fund (1975).

Class of 1921 Fund (1931).

Class of 1925 Fund (1975).

Class of 1926 Fund (1981).

Class of 1930 Fund (1975).

Class of 1931 Memorial Fund (1981).

Class of 1933 Fund (1973).

Class of 1935 Fund (1975).

Class of 1936 Fund (1971).

Class of 1947 Memorial Fund (1982).

Class of 1953 Fund (1973).

Class of 1954 Fund (1955).

Scholarship Funds

Class of 1959 Fund (1974).

In memory of Jacqueline Zelniker Radin.

Class of 1963 Fund (1983).

Class of 1981 Fund (1982).

Martine Cobanks Fund (1973).

College Bowl Fund (1968).

Barbara Myers Cross Fund (1986).

Yvonne Moen Cumerford Fund (1972).

Caryl M. Curtis Fund (1980).

Vera B. David Scholarships (1962).

In memory of her late husband, John David.

Ethel Dawbarn Fund (1987).

Ada M. Donelle Fund (1948).

L. Adele Dorsett Fund (1971).

Helen Geer Downs Fund (1974).

Amelia Cary Duncan Fund (1976).

May Parker Eggleston Fund (1977).

Betty Eisenstadt Fund (1982).

In memory of Sarah and Israel Gillman and of Betty Eisenstadt.

Elizabeth Kramer Emmons Fund (1986).

Sarah Engel Fund (1973).

Laura Teller Ericsson Fund (1976).

Margaret Jane Fischer Fund (1968).

Fiske Fund (1895).

Edyth Fredericks Fund (1974).

Clara Lillian Froelich Fund (1979).

Doris P. Gallert Fund (1970).

Galway Fund (1912).

Helen Jenkins Geer Fund (1940).

Cecile Meister Gilmore Fund (1986).

Anita Hyman Glick Fund (1968).

Irma Alexander Goldfrank Fund (1919).

Harriet Wilinsky Goodman and Sylvan A. Goodman Fund (1983).

Elsa Gottlieb Fund (1982).

Graham School Fund (1907).

Blanche Kazon Graubard Fund (1981).

Ethel C. Gray Fund (1973).

Louise H. Gregory Fund (1955).

Hetta Stapff Halloran Fund (1977).

Harkness Fund (1939).

Jane Harnett Fund (1978).

Helen May Smith Helmle Fund (1973).

Scholarship Funds

Margaret Holland Fund (1975).
Rita Hilborn Hopf Memorial Fund (1966).
Charles Evans Hughes Fund (1952).
Eleanor Levison Israel Fund (1976).
Lucie Burgi Johnson Fund (1979).
Lily Murray Jones Fund (1950).
Mildred K. Kammerer Fund (1973).
Peggy King Scholarship Fund (1986).
Mirra Komarovsky Fund (1975).
Lucile Wolf Koshland Fund (1980).
Elsie M. Kupfer Fund (1975).
Margaret Irish Lamont Fund (1978).
Augusta Larned Fund (1924).
Marjorie Hermann Lawrence Fund (1965/67).
Yves LeMay Fund (1982).
Harriett Mooney Levy Fund (1965).
Joan Sperling Lewinson Fund (1955).
Judith Lewittes Fund (1957).
Anne Elizabeth Lincoln Fund (1963).
Amy Loveman Fund (1956)
See Prizes, page 308.
Louise Grace Luby and James Luby Fund (1947).
Barbara Scoville Maarschalk Fund (1977).
Frances E. and Henry W. Martin Fund (1986).
Jeanne S. Mattersdorf and Bertha Miller Memorial Fund (1970).
Cecile Lehman Mayer Scholarship Fund (1962).
Leo Mayer Fund (1972).
Adele Duncan McKeown Fund (1973).
Eloise F. McLennan Fund (1987).
Memorial Fund (1954).
Dorothy E. Miner Fund (1977).
Gladys Bateman Mitchell Fund (1980).
William Moir Fund (1912).
Gulli Lindh Muller Fund (1972).
Caroline Church Murray Fund (1918).
Annette Florence Nathan Fund (1947).
Dora R. Nevins Fund (1969).
Ann Whitney Olin Fund (1982).
Dorothy Brockway Osborne Fund (1976).
Lucretia Perry Osborn Fund (1940).
Elizabeth Palmer Fund (1972).
Jean T. Palmer Fund (1969).

Scholarship Funds

Lucy Powell Fund (1971).

M. Gladys Quinby Fund (1961).

Jacqueline Zelniker Radin Fund (1975).

Eleanor Kaiser Reinheimer Fund (1976).

Eva Rich Fund (1968).

Peter C. Ritchie, Jr. Fund (1937).

Margaret Miller Rogers Fund (1976).

Caterina Ronzoni Fund (1986).

Edith Lowenstein Rossbach Memorial Fund (1959).

Carrie W. and Corine A. Rowe Fund (1979).

Edna Heller Sachs Fund (1955).

May and Edgar Salinger Fund (1971).

In memory of Isaac and Eugenie Herrmann.

Eleanor Butler Sanders Fund (1922).

Anna M. Sandham Fund (1922).

Katherine D. Schlager Fund (1975).

Schmitt-Kanefent Fund (1931).

Scholarship Fund (1901).

Katherine Flint Shaddek Fund (1961).

Dorothy Nolan Sherman Fund (1983).

Anne Victoria Shutkin Fund (1983).

Doris Silbert Fund (1987).

Max Sloman Fund (1971).

Emily James Smith Fund (1899).

Frances M. Smith Fund (1974).

Fred Curtis Smith Memorial Fund (1955).

George W. Smith Fund (1906).

Sylvia W. Stark Fund (1981).

C.V. Starr Fund (1983).

Claire Wander Stein Financial Aid Fund (1981).

Edna Phillips Stern Fund (1952).

Eleanor Holden Stoddard Fund (1977).

Isabel Greenbaum Stone Fund (1957).

Fannie Manwaring Sturtevant and Daniel Dwight Sturtevant Fund (1969).

Solon E. Summerfield Foundation Fund (1960).

Thrift Shop Scholarships (1938).

From the Barnard Scholarship Unit of Everybody's Thrift Shop.

Miriam Tobias Fund (1980).

Veltin School Fund (1905).

Florence Meyer Waldo Fund (1980).

Alma F. Wallach Fund (1951).

Scholarship Funds

Dorothy Calman Wallerstein Fund (1976).

Ella Weed Fund (1895).

Hymen and Helen Werner Fund (1964).

Fern Yates Memorial Fund (1980).

RESTRICTED

Patricia Leigh (Pat) Abbott Fund (1981).

For a student or students who have overcome serious physical difficulties.

Mary Gertrude Edson Aldrich Fund (1916).

To a senior who has shown high moral qualities.

Axe-Houghton Fund (1977).

For juniors or seniors with average of at least 3.0.

Bertha R. Badanes Fund (1966).

For children of New York City school teachers preferably from Brooklyn.

Barnard College Club of Brooklyn Fund (1944).

For a student from Brooklyn.

The Barnard College Club of Detroit Fund (1958).

Preferably for a new student from Metropolitan Detroit.

Barnard College Club of Greater San Francisco Fund (1986).

For a student preferably from the San Francisco Bay area.

Barnard College Club of Houston Fund (1969).

For students from the Houston area.

Barnard College Club of New York Fund (1952).

For a student from outside New York City.

Barnard-in-Westchester Fund (1962).

Preferably for students from Westchester County.

Barnard School Alumnae Fund (1916).

Preferably for nominees of the school.

Willina Barrick Memorial Fund (1936).

By the College Club of Jersey City for a graduate of a Jersey City secondary school.

The Annette Kar Baxter Memorial Fund (1984).

In memory of Annette Kar Baxter, '52, by her colleagues, students, classmates, and other friends. For students who have distinguished themselves in the study of some aspect of women's experience.

Irving Berlin Fund (1950).

For one or more Barnard students of foreign-born parentage.

June Rossbach Bingham Fund (1976).

For a Barnard student majoring in English, preferably one who is interested in pursuing a writing career.

Ida Blair Memorial Fund (1937).

Preferably for a student in political science.

Thornton F. Bradshaw Fund (1986).

For transfer students.

Alice Marie-Louise Brett Fund (1930).

For a senior specializing in French.

Scholarship Funds

William Tenney Brewster and Anna Richards Brewster Fund (1961).

To be awarded in amounts not less than \$1,000 preferably.

Anne Brown Endowment Fund (1939).

For students from the City of New York.

Carpentier Residence Fund (1919).

For students who are not residents of New York City or its vicinity.

Therese Cassel Fund (1973).

For students born in New York City, preferably those whose mothers were born in New York City and attended Barnard College.

Eliza Taylor Chisholm Memorial Fund (1901).

Preference to nominees of the Alumnae Association of Miss Chisholm's School.

C.I.T. Financial Corporation Fund (1979).

In honor of Eleanor Thomas Elliott '48. For a student of economics, mathematics, or political science.

Mrs. Henry Clarke Coe Fund (1910).

By the New York City Colony of the National Society of New England Women, to a student from New England or of New England parentage.

Class of 1919 Decennial Fund (1929).

For a resident student.

Class of 1926 Emergency Student Aid Fund (1976).

For emergency financial aid.

Class of 1949 Fund (1974).

For an incoming freshman.

Charles A. Dana Fund (1982).

For students designated Dana Scholars, as specified in the guiding principles for the program.

Babette Deutsch Fund (1978).

For Barnard students who have demonstrated exceptional ability in poetry, criticism, or translation.

Marie Ward Doty Fund (1981).

Preferably to daughters of parents in law enforcement or related fields.

Augusta Salik Dublin Fund (1960).

For a student in a field of social welfare.

Christine H. Eide Memorial Fund (1968).

For juniors majoring in anthropology or English.

Educational and Cultural Trust Fund of the Electrical Industry (1951).

For daughters of members of Local Union No. 3 of the International Brotherhood of Electrical Workers.

May Parker Eggleston Fund (1972).

For a science student, preferably one planning to attend medical school.

English Fund (1920).

Preferably for an English major.

Gladys Renshaw Esterbrook Fund (1958).

Preferably for English or French majors.

Martha T. Fiske Fund (1911).

For a student who is not a resident of the New York City area.

Scholarship Funds

Henry C. Kuever and Frederick W.A. Fuller Fund (1981).

Preferably for a student majoring in music, or in Greek or mathematics.

German Fund (1950).

See Prizes, page 309.

Virginia C. Gildersleeve International Fund (1937).

For a foreign student.

Virginia C. Gildersleeve Fund (1968).

For a major in the humanities, preferably English.

Elizabeth Hughes Gossett Scholars (1981).

For freshmen or sophomores for academic achievement, demonstrated inclination toward public service, and leadership qualities.

Julius Held Fund (1970).

For students majoring in Art History

Emma Hertzog Fund (1904).

For a graduate of Yonkers High School.

Marion Alice Hoey Fund (1944).

Preferably for a student in Greek and Latin.

Hannah and Henry Hofheimer Fund (1975).

For a freshman.

Holland Dames Fund (1915).

For a descendant of early Dutch settlers.

Lillia Babbitt Hyde Fund (1953).

For premedical students.

Charlotte Louise Jackson Fund (1928).

For a graduate of a Yonkers High School.

Mary E. Larkin Joline Fund (1927).

For a student specializing in music.

Werner Josten Fund (1955).

Preferably for a student in music.

Jessie Kaufmann Fund (1902).

For a student who has no relative able to offer financial assistance.

Kimball Fund (1938).

For a student from Spain or one of the Spanish-American countries for study at Barnard or elsewhere, under the direction of the Barnard Department of Spanish.

Eleanor Kinnicutt Fund (1911).

For a sophomore of exceptionally high standing.

Dr. Ann G. Kuttner Fund (1969).

Preferably to premedical students.

Eugene M. Lang Fund (1988).

Preferably for minority students.

Ethel Stone LeFrak Prize and Scholarship (1986).

For a student for excellence in the field of Arts, the balance as a grant to the prize recipient or a meritorious alternate.

Bernard Liberman Fund (1979).

For premedical students.

Carolina Marcial-Dorado Fund (1953).

For a student from Spain, or to a Spanish major continuing graduate studies in the United States or abroad or to a student who is majoring in Spanish.

Scholarship Funds

Raphael Marino Fund (1977).

For a student proficient in Italian language, literature, art, or culture.

Eugene F. and Minnie Gouger McGowan Fund (1955).

Preferably for students from Mecklenburg County, North Carolina.

Fannie Moulton McLane Fund (1961).

For citizens of the United States preferably of Colonial or Revolutionary ancestry, or the descendants of a Civil War soldier.

Mrs. Donald McLean Fund (1906).

For a student of history (chiefly that of the United States).

Barbara and Marilyn Meyers Fund (1986).

Preferably for students majoring in writing, music, dance or drama.

Ferry Starr Morgan Fund (1959).

For a student majoring in music or philosophy.

Lawrence Morris Fund (1968).

Preferably for a nominee of the New York City Mission Society.

Ruth Day Moser Fund (1983).

For seniors majoring in sociology.

Lucy Moses Fund (1975).

For a premedical student.

Ann Newman Fund (1986).

For study abroad.

Julia Fisher Papper Fund (1974).

For a senior of superior academic standing and high motivation.

Mary Barstow Pope Fund (1913).

For a nominee of a self-perpetuating committee representing the founders.

Public Service Fund (1934).

By the Women's Organization for National Prohibition Reform for students in their junior or senior years who show special promise for public service.

Lucille Pulitzer Fund (1899).

Three are restricted to students from the City of New York, eight are for resident students.

Marie Reimer Fund (1953).

See Prizes, page 308.

Amelia Agostini de del Rio Fund (1955).

For a student from Puerto Rico or a student who is majoring in Spanish.

Lesley Jane Rosen Memorial Fund (1975).

For a student who shows leadership quality and whose subject of interest is urban studies and/or political science.

Dr. Harry Rosenstein Fund (1967).

For a premedical student.

Doris Schloss Rosenthal Fund (1981).

For students majoring in courses in the Arts.

Joan Rosof Fund (1964).

For students from the State of New York.

Felix St. George Scholarship (1955).

For an incoming freshman studying physics, chemistry, or biology.

Dorothy K. Scheidell Fund (1965).

Preferably for premedical students.

Scholarship Funds

Lillian Schoedler Fund (1967).

For students who show promise of civic leadership.

Margarete Schwabe Fund (1974).

For premedical students with outstanding ability and idealism.

Roslyn Schiff Silver Fund (1982).

For junior and senior students preparing for careers in medical research.

Clarice Ann Smith Fund (1973).

For students of literature and composition.

Marion Wesley Smith Fund (1978).

For students majoring in Anthropology.

Hilda Staber Fund (1967).

For foreign students.

Estella Raphael Steiner Fund (1972).

For a senior in Biological Sciences who plans to engage in research in that field.

Beatrice L. Stern Memorial Fund (1977).

For juniors and seniors in the life sciences or in the area of intergroup relations with special emphasis on those problems affecting minority welfare and acceptance in the American scene.

Marion Levi Stern Fund (1977).

Preferably for students in the social sciences.

Simon and Elaine Strauss Fund (1981).

For disabled students.

Emma A. Tillotson Fund (1910).

For a sophomore of exceptionally high standing.

Clara Bittenwieser Unger Memorial Fund (1938).

For a senior in political science who shows promise of ability to contribute to the promotion and perpetuation of true democracy under our Constitution.

Helen Elizabeth Vosburgh Fund (1934).

Preference to a self-supporting student.

Walter A. Wagener Memorial Fund (1984).

For students majoring in the Program in the Arts.

Gertie Emily Gorman Webb Fund (1953).

For a nominee of the Department of History.

May Hessberg Weis Fund (1981).

For students in environmental ethics and conservation.

Esther Lensh Weisman Fund (1979).

Preferably for a student majoring in English.

Allison Wier Fund (1977).

For students who are residents of Westchester County.

Elsa P. Wunderlich Fund (1978).

For a German exchange student.

Richard P. Youtz Fund (1987).

For students in the Resumed Education Program.

Alma Gluck Zimbalist Fund (1940).

For students in political science.

Gertrude Bunger Zufall Fund (1987).

For a senior pre-medical student.

Scholarship Funds

Loan Funds

The following loan funds are administered by the Committee on Financial Aid in accordance with terms specified by the donors and are regularly assigned as part of students' financial aid awards.

- Associate Alumnae Student Loan Fund
- Barnard College Club of Cleveland Loan Fund
- Barnard College Loan Fund
- Ann Susan Becker Memorial Loan Fund
- Marilyn Chin Loan Fund
- Pauline Hirschfeld Loan Fund
- Gertrude C. Hitchcock Loan Fund
- Adelaide Le Ciercq Loan Fund
- Swope Loan Fund
- Tudor Foundation Student Loan Fund

The Morris Morgenstern Student Loan Fund provides temporary emergency assistance and is administered by the Office of Financial Aid.



XVII. Honors

The following funds were established to honor those who have shown exceptional distinction in their chosen field of study and are administered according to the provisions of their respective donors.

Fellowships

Associate Alumnae of Barnard College Graduate Fellowship (1963).

For a graduate who shows exceptional promise in her chosen field of work. Information and applications may be obtained in the Alumnae Office.

Anne Davidson Fellowship Fund (1971).

For graduating seniors who will pursue graduate study in conservation at a university of approved standing.

George Welwood Murray Graduate Fellowship Fund (1930).

For graduating seniors who show promise of distinction in the humanities and/or the social sciences and who will pursue graduate study at a university or college of approved standing.

The Lillian Niederman Fellowship Award (1984).

By Doctor Miriam S. Harris in memory of her mother, Lillian Niederman Shapiro. For a graduating senior who gives promise of distinction as physician and humanist.

Josephine Paddock Fellowship Fund (1976).

For graduating seniors who show promise of distinction in such field or graduate study in art as the faculty shall determine. Holders are to pursue studies preferably abroad at a college or university of approved standing.

Grace Potter Rice Fellowship Fund (1935).

For graduating seniors who show promise of distinction in the natural sciences or mathematics and who will pursue graduate study at a university or college of approved standing.

Alpha Zeta Club Graduate Fund (1936).

For graduating seniors who show promise of distinction or to outstanding recent Barnard graduates who are candidates for higher degrees.

William Mason Scholarship (1928).

Awarded periodically on recommendation of the Department of Music to a member of the graduating class of Barnard or Columbia College for graduate studies in music.

General

Estelle M. Allison Prize Fund (1937).

For excellence in literature.

Mary E. Allison Prize Fund (1937).

For general excellence in scholarship.

Frank Gilbert Bryson Prize (1931).

For a senior who, in the opinion of the class, has given conspicuous evidence of unselfishness and who has made the greatest contribution to Barnard during the college years.

Eleanor Thomas Elliott Prizes (1973).

Two prizes to juniors chosen by the Honors Committee from among the five most outstanding students in the class based upon overall academic record, integrity and good citizenship in the College.

Honors

Katherine Reeve Girard Prize (1964).

For a student whose interests are in the international aspects of a major.

Ann Barrow Hamilton Memorial Prize in Journalism (1978).

For a graduating senior who will pursue a career in the field of journalism.

Alena Wels Hirschorn Prize (1986).

To be awarded alternately between an outstanding junior student journalist and a graduating senior major in Economics who also studies English literature and who wants to pursue a career in journalism.

The Margaret Holland Bowl (1974).

Awarded by the Physical Education Department for excellence in leadership and participation.

Lucyle Hook Travel Fund (1987).

Travel grants to promising individuals with enriching, eclectic projects who demonstrate originality and self-direction.

Jo Green Iwabe Prize (1986).

For disabled students.

Harry Salzman Internship Fund (1982).

For an internship in Washington, D.C.

Schwimmer Prize Fund (1986).

For an outstanding graduating senior in the Humanities.

Marian Churchill White Prize Fund (1975).

For an outstanding sophomore who combines scholarly promise and service to class and college.

Premedical

Helen R. Downes Prize (1964).

For graduating seniors who show promise of distinction in medicine or the medical sciences.

Ida and John Kauderer Prize Fund (1973).

For premedical students majoring in chemistry.

Art History

Nancy Hoffman '66 Prize Fund (1983).

For students in Art History or Program in the Arts who plan to enter museum or gallery work or art conservatorship.

Virginia B. Wright Art History Prize Fund (1969).

For promising seniors majoring in Art History.

Biological Sciences

Edna Henry Bennett Memorial Fund (1927).

For work at a biological laboratory offering summer courses.

The Herbert Maule Richards Fund (1933).

For botanical research, under the direction of an approved institution.

Donald and Nancy Ritchie Fund (1979).

For biological study or research.

Hermann Botanical Prize Fund (1892).

For a proficient undergraduate student in biology.

Honors

Spiera Family Prize Fund (1986).

For promise of excellence by a student majoring in Biological Sciences.

Von Wahl Prize (1915).

For advanced work in biology.

Chemistry

American Institute of Chemists, New York Chapter.

A subscription to "The Chemist," and a certificate of honor. For an outstanding student of chemistry.

Marie Reimer Scholarship Fund (1953).

Awarded at the end of the junior year to an outstanding major in chemistry.

Bernice G. Segal Summer Research Internships Fund (1986).

To be awarded as one or more internships for supervised research in the sciences during the summer.

Economics

The American Statistical Association Prize, New York Area Chapter (1960).

A one-year student membership in the American Statistical Association. For an outstanding student in statistics.

Alena Wels Hirschorn Prize and Scholarship (1986).

To a junior for the best essay on the subject of domestic or international economics.

Beth Niemi Memorial Prize Fund (1981).

For an outstanding senior majoring in economics.

Katharine E. Provost Memorial Fund (1949).

For superior work by an undergraduate major in economics.

Sylvia Kopald Selekman Prize Fund (1960).

For the freshman who is doing the best work in introductory economics.

Education

Stephanie Kossoff Prize (1972).

For the student who has made the most noteworthy contribution or meaningful endeavor in early childhood education.

English

Saint Agatha Muriel Bowden Memorial Prize (1971).

For superior proficiency in the study of Chaucer and Medieval Literature.

W. Cabell Greet Prize (1974).

For excellence in English.

William Haller Prize (1987).

For excellence in the study of English Literature.

The Elizabeth Janeway Prize for Prose Writing.

For a work of prose, which gives the greatest evidence of creative imagination and sustained ability.

Amy Loveman Memorial Fund (1956).

For the best original poem by an undergraduate.

Leonore Marshall Barnard Prizes (1975).

For the best prose and the best poetry published in a literary magazine of the college.

Sidney Miner Poetry Prize Fund (1962).

For the senior major who has shown distinction in the reading, writing, and study of poetry.

Honors

The Helen Prince Memorial Prize Fund (1921).

For excellence in dramatic composition.

Katharina Stains-Berle Memorial Prize Fund in Anglo-Saxon (1968).

For excellence in Anglo-Saxon language and literature.

The Academy of American Poets Prize. (Columbia University).

For the best poem or group of poems by a student.

The Bunner Medal (Columbia University).

To the candidate for a Columbia degree who shall present the best essay on any topic dealing with American literature.

Helene Searcy Puls Prize Fund (1984).

For the best poem in an annual student competition.

Howard M. Teichmann Writing Prize (1986).

To a graduating senior for a written work or body of work that is distinguished in its originality and excellent in its execution.

Van Rensselaer Prize. (Columbia University).

To the candidate for a Columbia degree who is the author of the best example of English lyric verse.

George Edward Woodberry Prize. (Columbia University).

To an undergraduate student of the University for the best original poem.

Environmental Science

Lillian Berle Dare Prize Fund (1974).

For the most proficient Barnard senior who will continue to study in geography or a related field.

Henry Sharp Prize Fund (1970).

For an outstanding student majoring in the Department of Environmental Science.

French

Helen Marie Carlson French Prize Fund (1965).

For the best composition in fourth-term French (BC 1204), or a similar course.

Isabelle de Wyzewa Prize Fund (1972).

For the best composition in the French course, *Masterpieces of Literature from the Middle Ages to the Twentieth Century*.

Frederick G. Hoffherr French Prize (1961).

To a student in intermediate French (BC 1203) for excellence in oral French.

Linda Joan Israel Prize in French (1977).

To a French major, preferably a senior, for work done in *Advanced Oral French*, or *Advanced Translation into French*, or an advanced French poetry course.

Eleanor Keller Prizes (1968).

For juniors in French literature and seniors in French culture.

Rosemary Thomas Prize Fund in French (1966).

For evidence of a special sensitivity and awareness in the study of French poetic literature.

German

Dean Prize in German (1952).

For the senior who has throughout college done the best work in German language and literature.

German Scholarship Fund (1950).

Awarded at the end of the junior year to an outstanding major in German.

Honors

Greek and Latin

John Day Memorial Prize Fund (1986).

For a high ranking sophomore in the field of Greek and Latin.

Earle Prize in Classics. (Columbia University).

For excellence in sight translation of passages of Greek and Latin.

Jean Willard Tatlock Memorial Prize Fund (1917).

For the undergraduate student most proficient in Latin.

History

Eugene H. Byrne History Prize Fund (1960).

For superior work by a History major.

The Jenny A. Gerard Medal (1908).

For the student who is most proficient in Colonial History.

Ellen Davis Goldwater History Prize (1982).

For superior work by a History major.

Italian

Bettina Buonocore Salvo Prize Fund (1966).

For a student of Italian.

Speranza Italian Prize Fund (1911).

For excellence in Italian.

Mathematics

Margaret Kenney Jensen Prize Fund (1973).

For excellence in mathematics.

Kohn Mathematical Prize (1892).

To a senior for excellence in mathematics.

Music

Robert Emmett Dolan Prize. (Columbia University).

To a student in any division of the University for instruction on a chosen musical instrument.

Ethel Stone LeFrak Prize. (1986).

For a graduating senior whose creative writing in music shows promise of distinction.

Oriental Studies

Taraknath Das Foundation Prize in Oriental Studies. (Columbia University).

To a student in Barnard College, Columbia College, or the School of General Studies, for excellence in Oriental Studies.

Philosophy

The William Pepperell Montague Prize Fund (1949).

For promise of distinction in the field of philosophy.

Gertrude Braun Rich Prize Fund. (1986).

For promise of excellence by a student majoring in Philosophy.

Physics

Henry A. Boorse Prize Fund (1974).

For the most promising Barnard sophomore in Physics.

Political Science

Phoebe Morrison Memorial Prize Fund (1969).

For a political science major planning to attend law school.

Honors

James Gordon Bennett Prize. (Columbia University).

For the best essay upon some subject of contemporary interest in the domestic or foreign policy of the United States.

The Caroline Phelps Stokes Prize. (Columbia University).

For the best essay on any topic approved by the Stokes Prize Committee, which has been presented in course or seminar work.

Psychology

The American Statistical Association Prize, New York Area Chapter (1960).

See Economics listing.

Ida Markewich Lawrence '78 Prize Fund (1982).

For the best paper in psychology, preferably child psychology.

Religion

Samuel Dornfield Prize Fund (1979).

For work in Old Testament or Ancient Near Eastern Studies that reflects special sensitivity and academic excellence.

Caroline Gallup Reed Prize Fund (1916).

For outstanding work either in the field of the origin of Christianity and early church history or in the general field of the history and theory of religion.

Russian

Alice Levin Sokolik Prize in Russian (1976).

For the student who, in the course of her studies, has demonstrated the greatest love for the Russian language and literature.

Spanish

The John Bornemann Prize in Spanish (1976).

A book for superior performance in the first or second year language courses.

The Eugene Raskin Prize.

For the best essay in fourth-Spanish.

Spanish Prize (1959).

For a Spanish major who has done the most distinguished work in Spanish language and literature.

The Ucelay Recitation Prize.

For the best recitation of a poem or dramatic passage in Spanish.

Susan Huntington Vernon Prize. (Seven Colleges).

For the best original essay written in Spanish by a senior whose native language is not Spanish.

Theatre

The Kenneth Janes Prize in Theatre (1987).

For a Barnard junior or senior who has contributed notably to the theatre program of the Minor Latham Playhouse.

Urban Studies

Suzanne Farkas Urban Affairs Prize (1972).

For the best essay in Urban Studies.

Women's Studies

Bessie Ehrlich Memorial Prize Fund (1980).

For an oral history project of a female relative of a preceding generation, in conjunction with the Women's Studies Program.

Jane S. Gould Prize Fund (1982).

For an outstanding senior essay by a Women's Studies major.



XVIII. Statistics

	1889	1899	1909	1919	1924	1929	1934	1944	1954	1964	1974	1984	1985	1986	1987
	to	to	to	to	to	to	to	to	to	to	to	to	to	to	to
1890	1900	1910	1920	1925	1925	1930	1935	1945	1955	1965	1975	1985	1986	1987	1988
Undergraduates, Regular															
Seniors.....	—	40	62	87	126	227	181	208	245	355	572	559	571	532	542
Juniors.....	—	40	122	190	259	237	220	314	340	414	554	563	543	521	559
Sophomores.....	—	37	109	193	234	247	226	314	317	391	488	512	538	555	533
Freshmen.....	14	54	188	224	271	311	267	324	304	415	437	531	510	532	522
Unclassified Students.....	—	—	—	—	57	54	103	56	1	8	—	—	—	—	—
	14	171	481	694	947	1076	997	1216	1207	1583	2051	2165	2162	2140	2156
Special Students															
Matriculated.....	—	21	24	39	—	—	—	—	—	—	—	—	—	—	—
Nonmatriculated.....	—	—	30	22	33	28	29	21	20	19	33	22	19	21	13
Departmental (1889-1896).....	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Music Students (1896-1905, 1914-1915).....	—	41	—	—	—	—	—	—	—	—	—	—	—	—	—
	22	62	54	61	33	28	29	21	20	19	33	22	19	21	13
Graduate Students															
(1890-1900).....	—	82	—	—	—	—	—	—	—	—	—	—	—	—	—
Total Registration	36	315	535	755	980	1104	1026	1237	1227	1602	2084	2187	2181	2161	2169
Degrees Conferred															
A.B.....	—	39	88	139	198	247	221	270	258	367	497	612	538	541	534
B.S. (1909-1918).....	—	18	2	5	—	—	—	—	—	—	—	—	—	—	—
A.M. (1898-1900).....	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
Ph.D. (1899-1900).....	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total Bachelor's Degrees conferred 1893-1988, A.B., 24,695, B.S., 77.
These figures represent registration in the Autumn Term.



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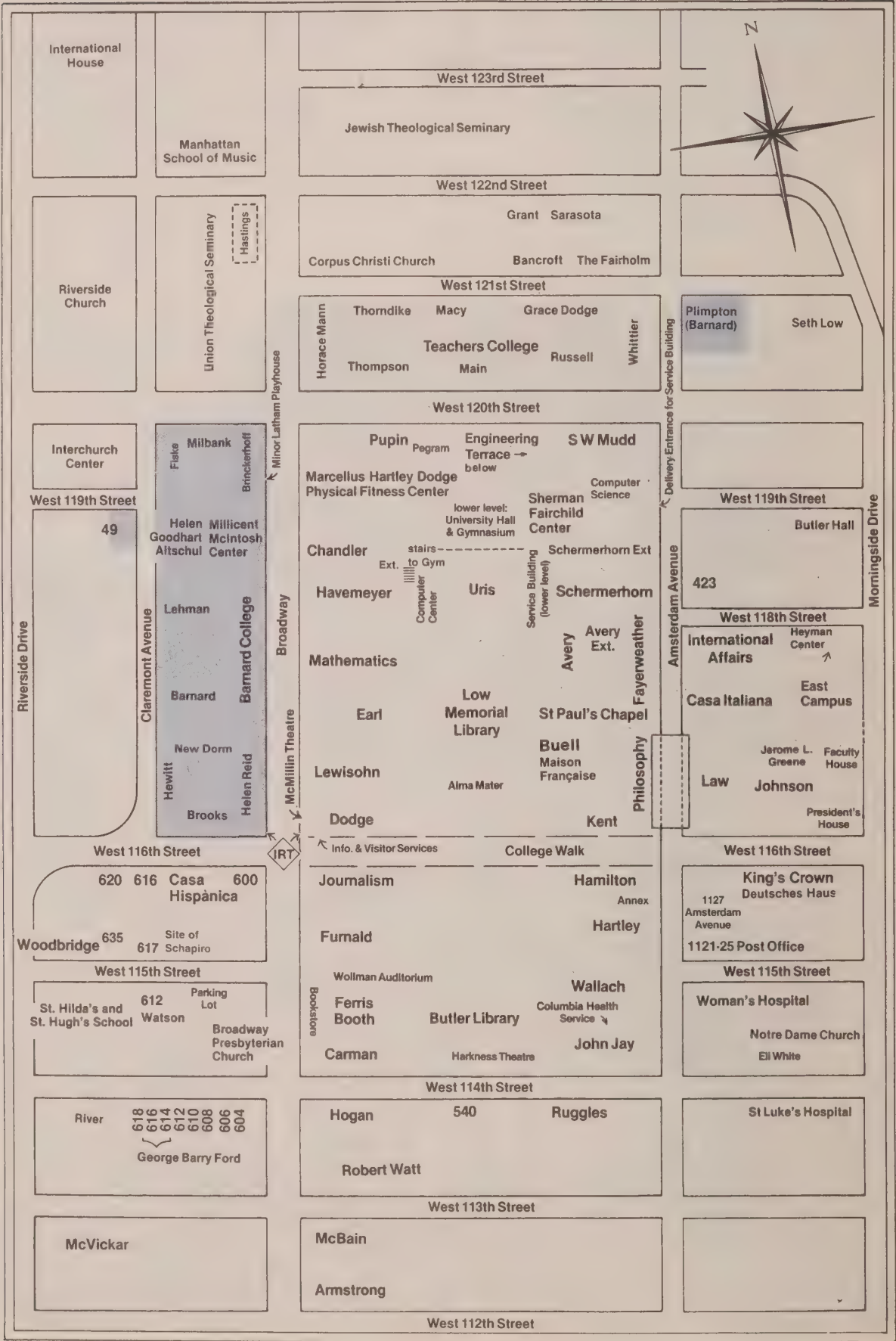
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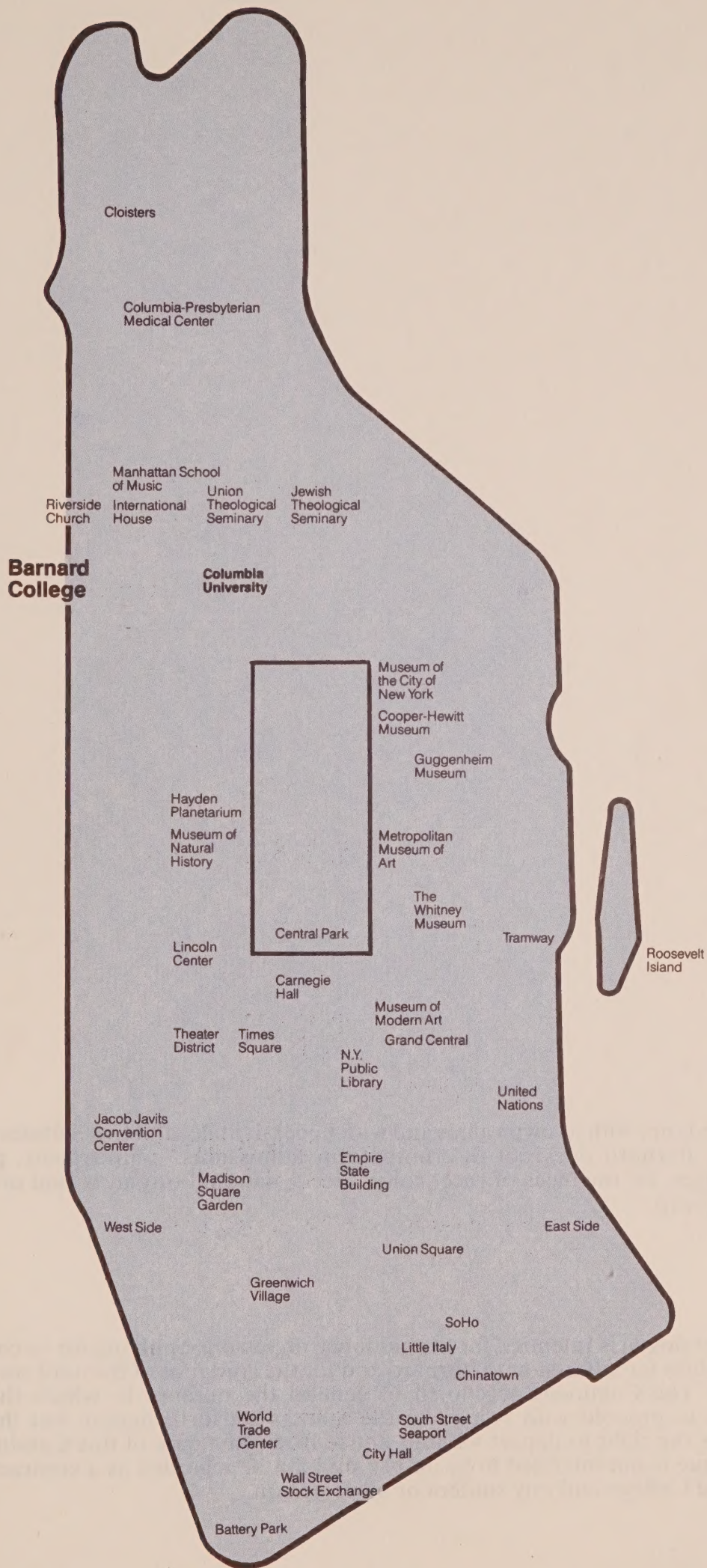
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BARNARD COLLEGE COLUMBIA UNIVERSITY

The Morningside Campus & Environs





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